



Appendix B

RF Test Data for 5.2&5.8G WIFI (Conducted Measurement)

Product Name: Wireless Router

Test Model: TR200

Environmental Conditions

Temperature:	21.6° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Ken He
Supervised by:	Li Huan



B.4: Emission Bandwidth

Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	ANT3	5180	19.800	5170.040	5189.840	---	PASS
		5200	19.640	5190.160	5209.800	---	PASS
		5240	19.800	5230.160	5249.960	---	PASS
		5745	19.800	5735.040	5754.840	---	PASS
		5785	19.720	5775.120	5794.840	---	PASS
		5825	19.800	5815.080	5834.880	---	PASS
11N20SISO	ANT3	5180	19.920	5170.000	5189.920	---	PASS
		5200	19.960	5190.000	5209.960	---	PASS
		5240	19.960	5230.080	5250.040	---	PASS
		5745	19.880	5735.040	5754.920	---	PASS
		5785	19.960	5775.000	5794.960	---	PASS
		5825	19.960	5815.000	5834.960	---	PASS
11N40SISO	ANT3	5190	39.920	5169.920	5209.840	---	PASS
		5230	39.920	5210.000	5249.920	---	PASS
		5755	39.840	5735.000	5774.840	---	PASS
		5795	39.840	5775.240	5815.080	---	PASS
11AC20SISO	ANT3	5180	18.280	5170.880	5189.160	---	PASS
		5200	18.320	5190.840	5209.160	---	PASS
		5240	18.240	5230.880	5249.120	---	PASS
		5745	18.320	5735.840	5754.160	---	PASS
		5785	18.280	5775.880	5794.160	---	PASS
		5825	18.320	5815.840	5834.160	---	PASS
11AC40SISO	ANT3	5190	39.920	5170.080	5210.000	---	PASS
		5230	39.840	5210.080	5249.920	---	PASS
		5755	39.920	5735.160	5775.080	---	PASS
		5795	39.920	5775.080	5815.000	---	PASS
11AC80SISO	ANT3	5210	80.640	5170.000	5250.640	---	PASS
		5775	80.960	5734.520	5815.480	---	PASS

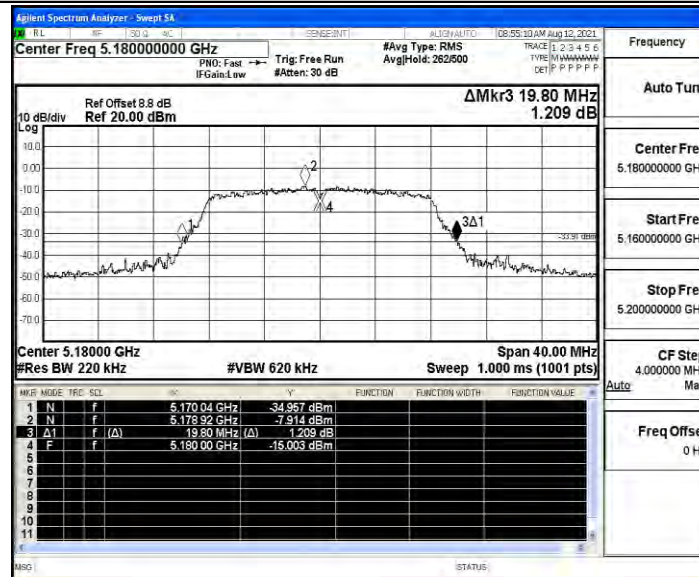


TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	ANT4	5180	19.600	5170.200	5189.800	---	PASS
		5200	19.680	5190.200	5209.880	---	PASS
		5240	19.840	5230.080	5249.920	---	PASS
		5745	19.640	5735.160	5754.800	---	PASS
		5785	19.760	5775.200	5794.960	---	PASS
		5825	19.440	5815.280	5834.720	---	PASS
11N20SISO	ANT4	5180	19.960	5170.080	5190.040	---	PASS
		5200	19.960	5190.040	5210.000	---	PASS
		5240	19.880	5230.040	5249.920	---	PASS
		5745	19.920	5735.080	5755.000	---	PASS
		5785	19.920	5775.040	5794.960	---	PASS
		5825	19.920	5815.040	5834.960	---	PASS
11N40SISO	ANT4	5190	39.840	5170.080	5209.920	---	PASS
		5230	39.680	5210.160	5249.840	---	PASS
		5755	39.600	5735.240	5774.840	---	PASS
		5795	39.760	5775.160	5814.920	---	PASS
11AC20SISO	ANT4	5180	19.880	5170.080	5189.960	---	PASS
		5200	19.880	5190.080	5209.960	---	PASS
		5240	19.880	5230.080	5249.960	---	PASS
		5745	19.960	5735.040	5755.000	---	PASS
		5785	19.960	5775.080	5795.040	---	PASS
		5825	19.920	5815.040	5834.960	---	PASS
11AC40SISO	ANT4	5190	39.920	5170.160	5210.080	---	PASS
		5230	39.920	5210.000	5249.920	---	PASS
		5755	39.600	5735.240	5774.840	---	PASS
		5795	39.840	5775.000	5814.840	---	PASS
11AC80SISO	ANT4	5210	80.960	5170.000	5250.960	---	PASS
		5775	80.640	5734.520	5815.160	---	PASS

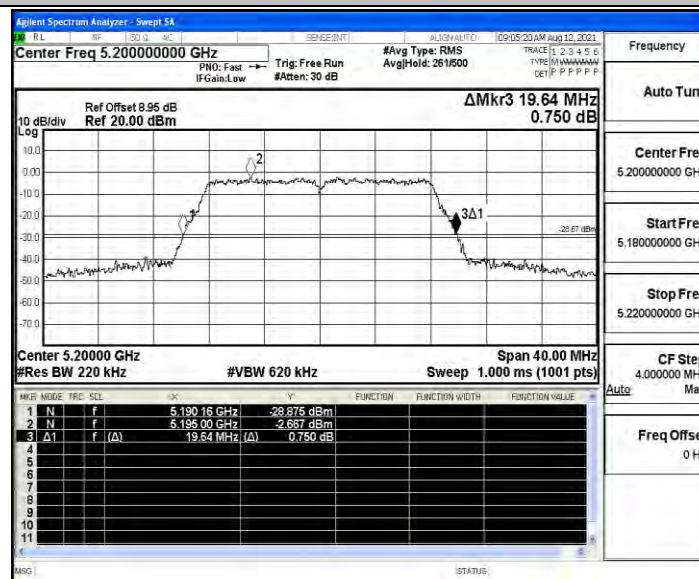


Test Graphs

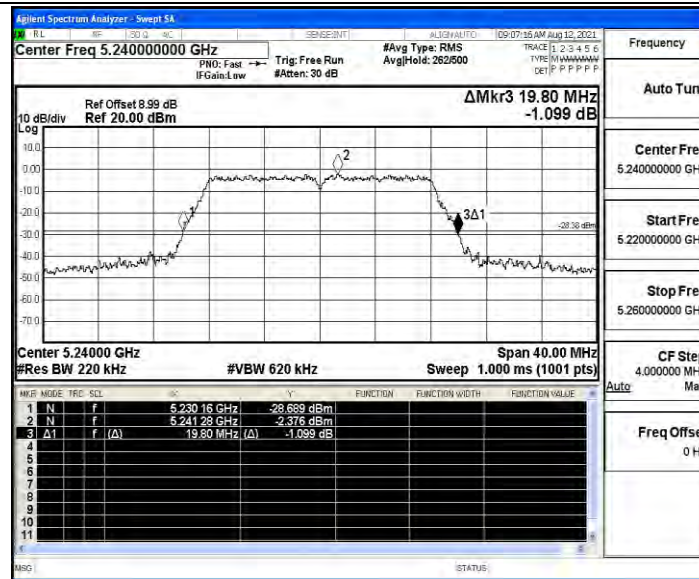
11A_ANT3_5180



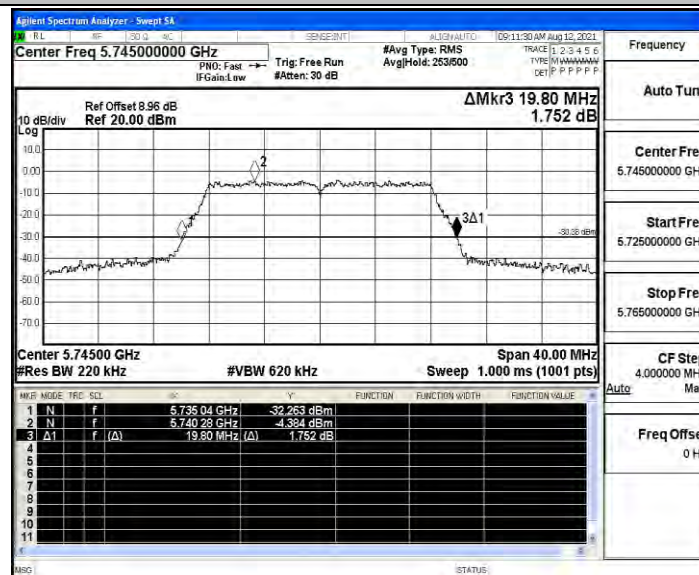
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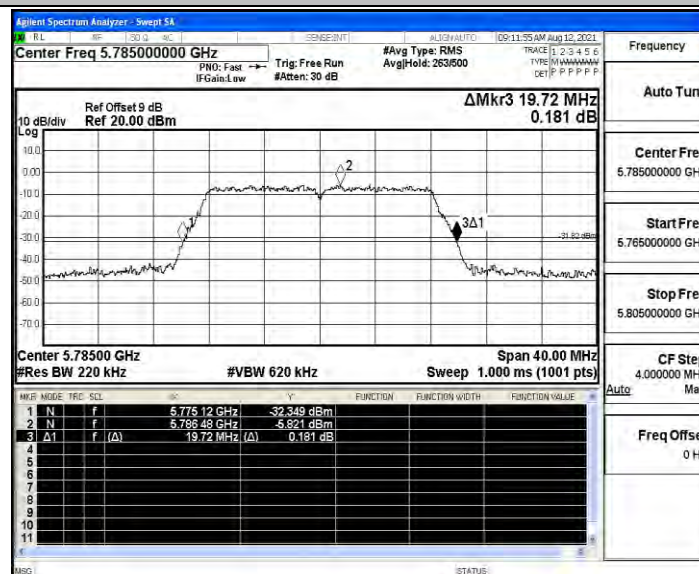
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11A_ANT3_5745

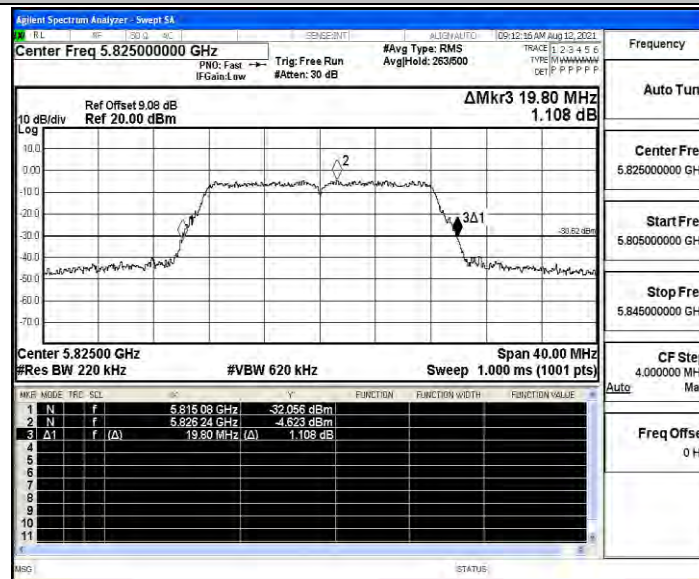


11A_ANT3_5785

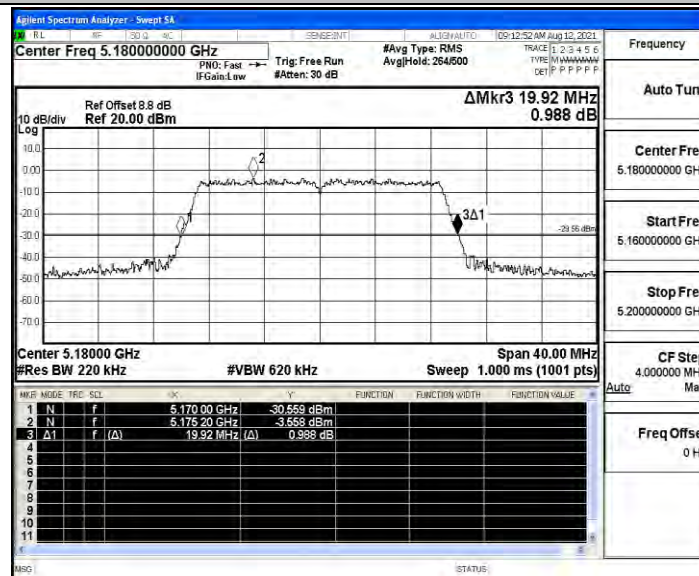




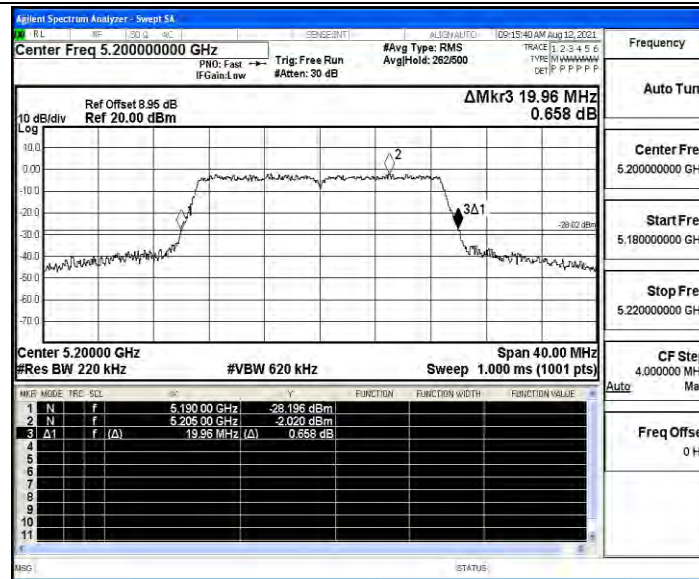
11A_ANT3_5825



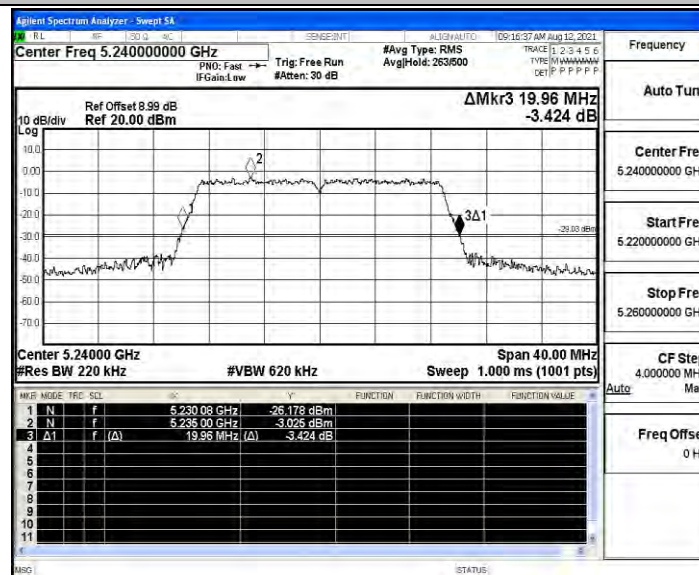
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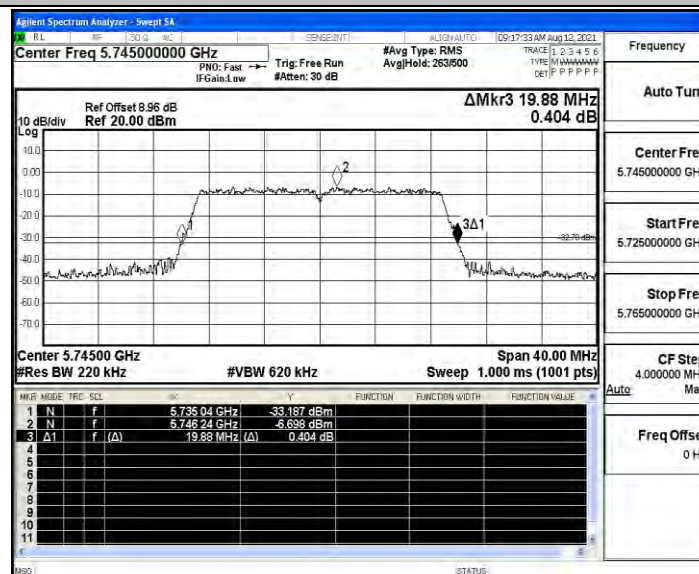
11N20SISO_ANT3_5200



11N20SISO_ANT3_5240

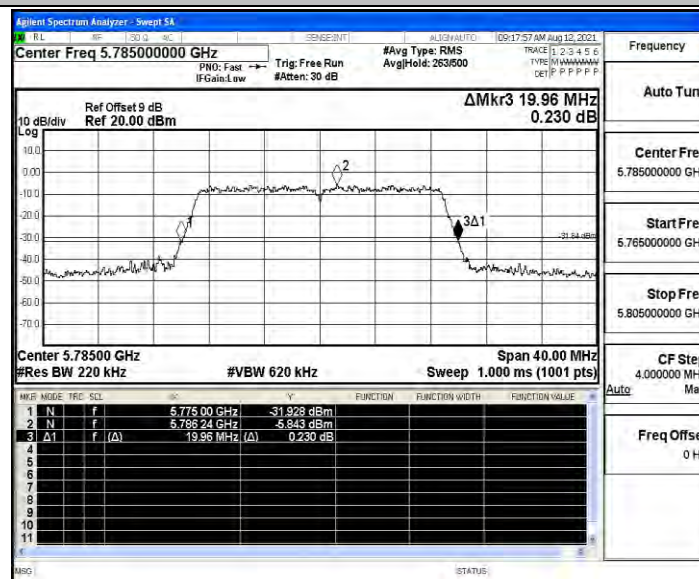


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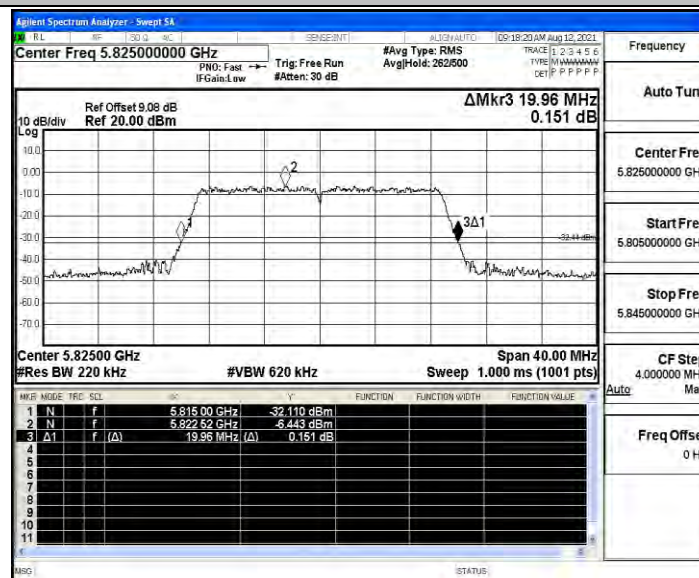




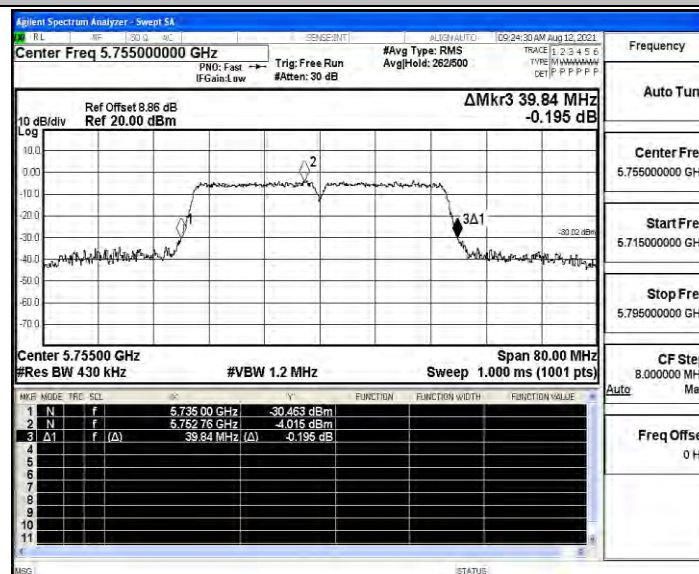
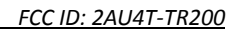
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11N20SISO_ANT3_5825

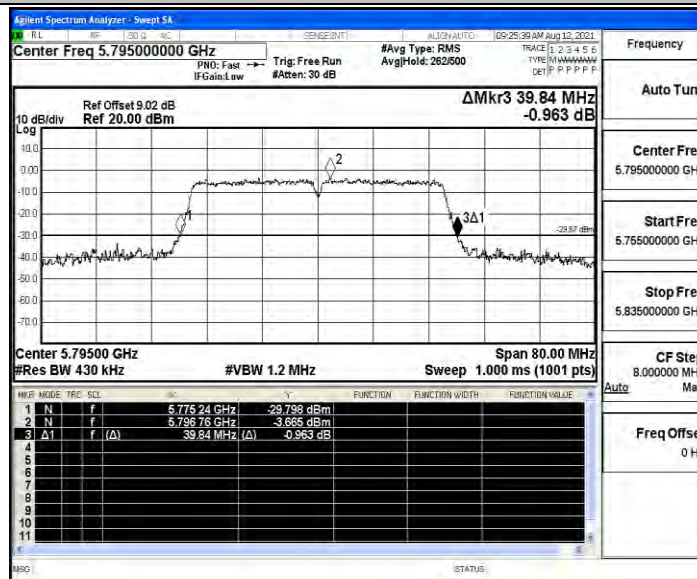


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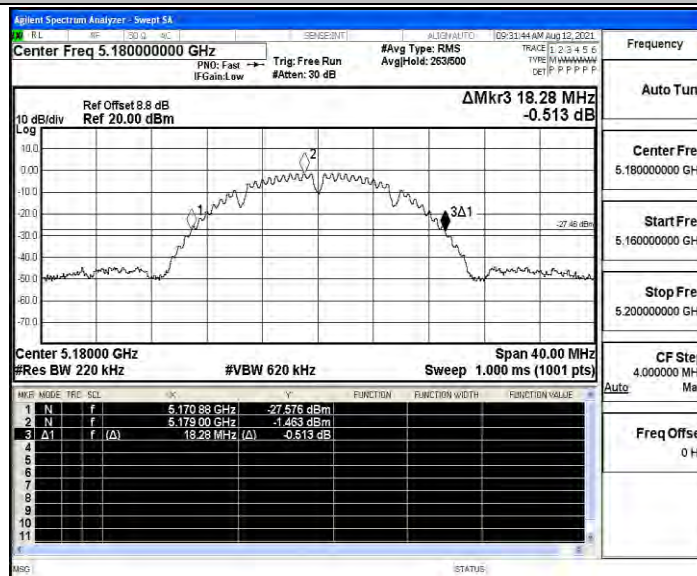




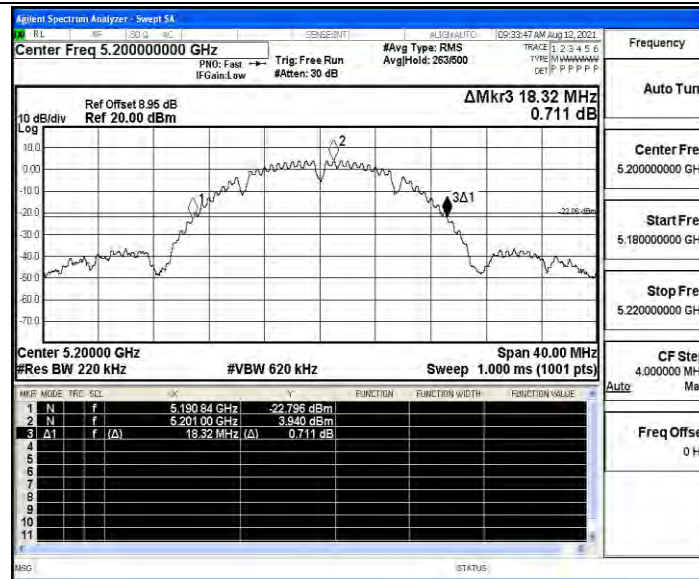
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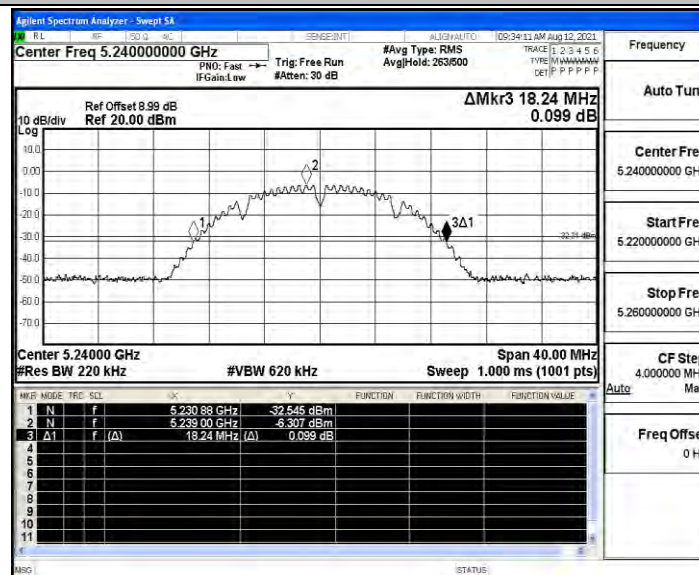
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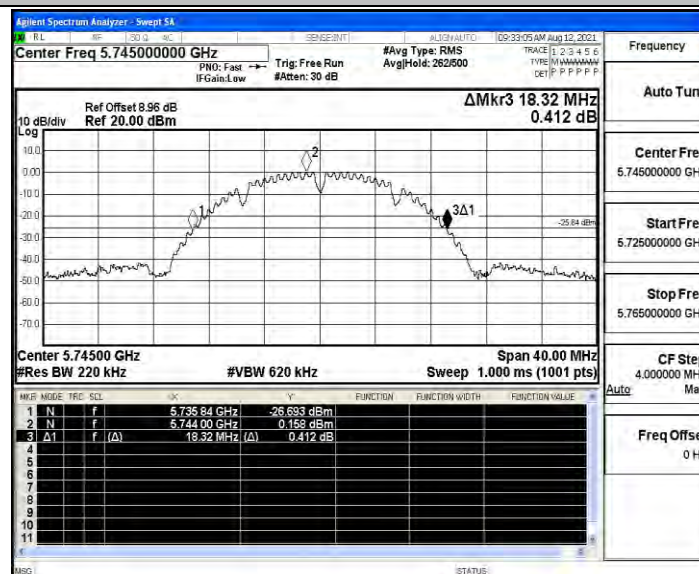
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11AC20SISO_ANT3_5240

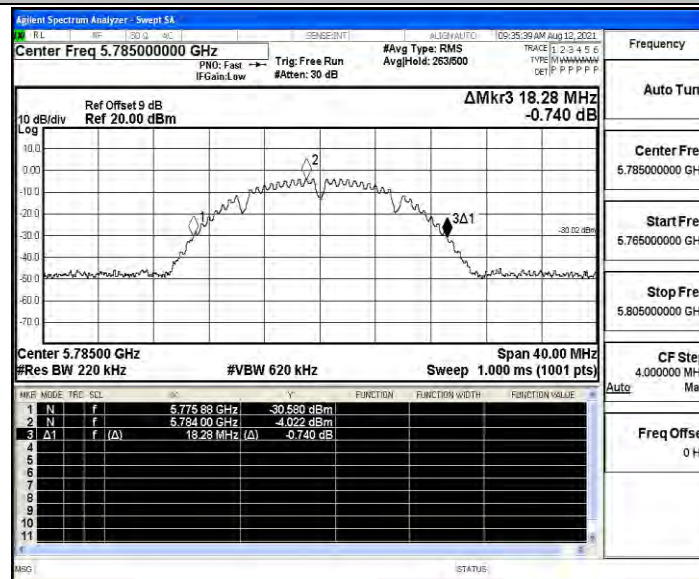


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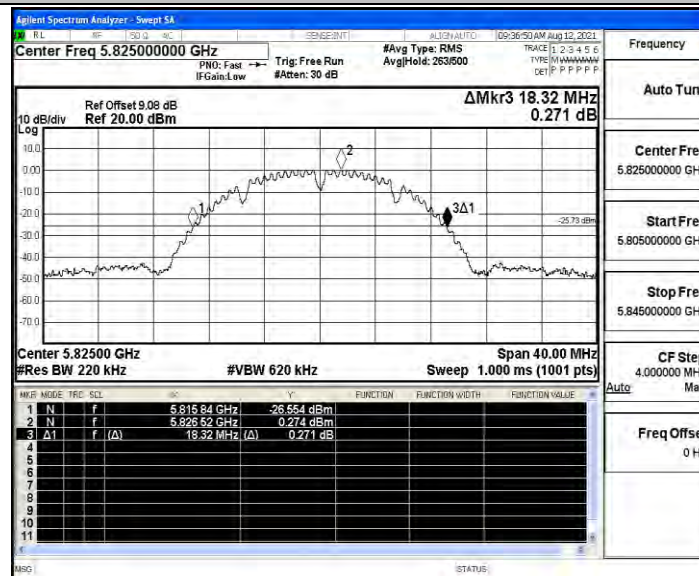




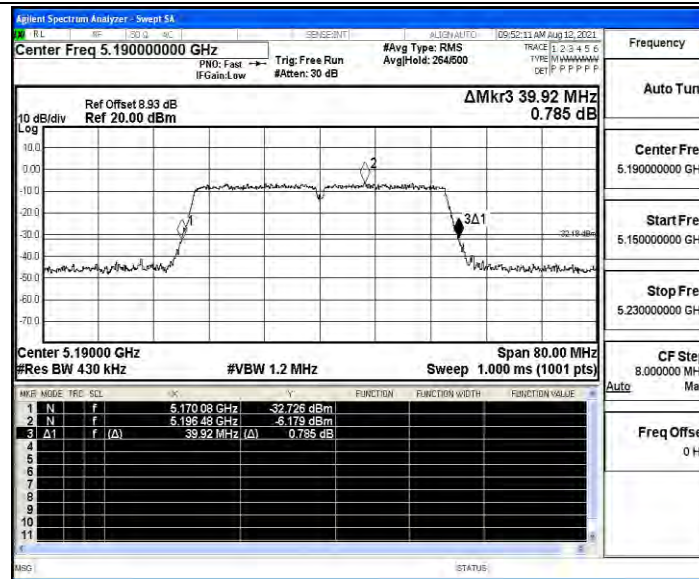
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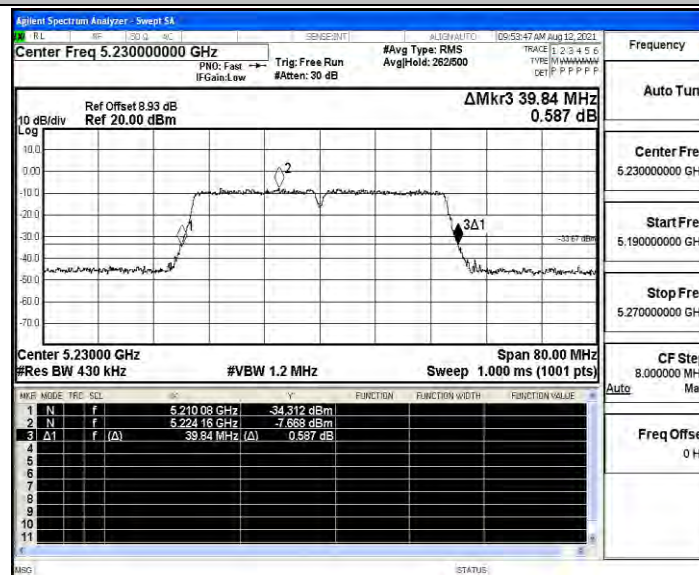
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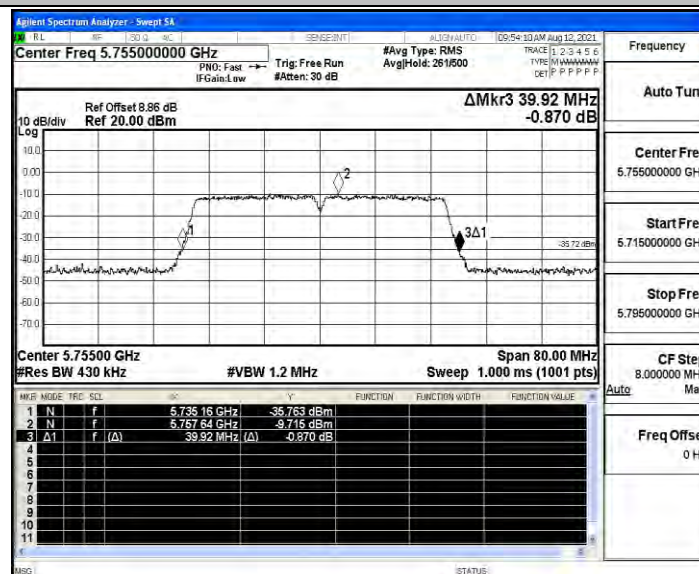
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11AC40SISO_ANT3_5230

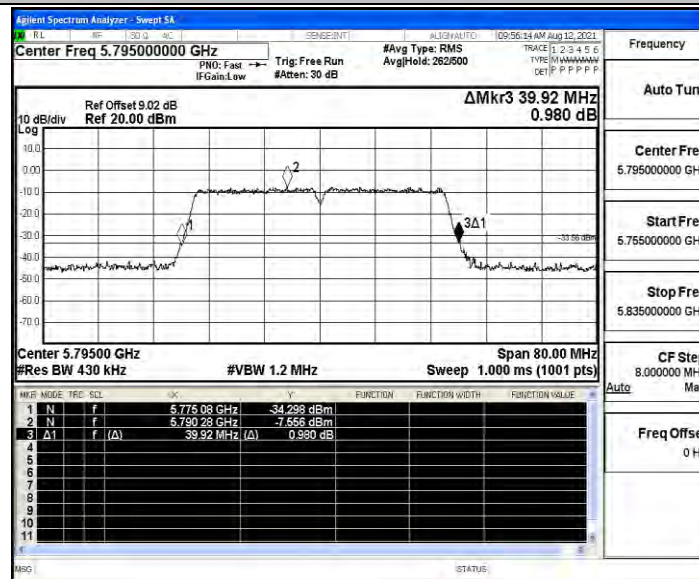


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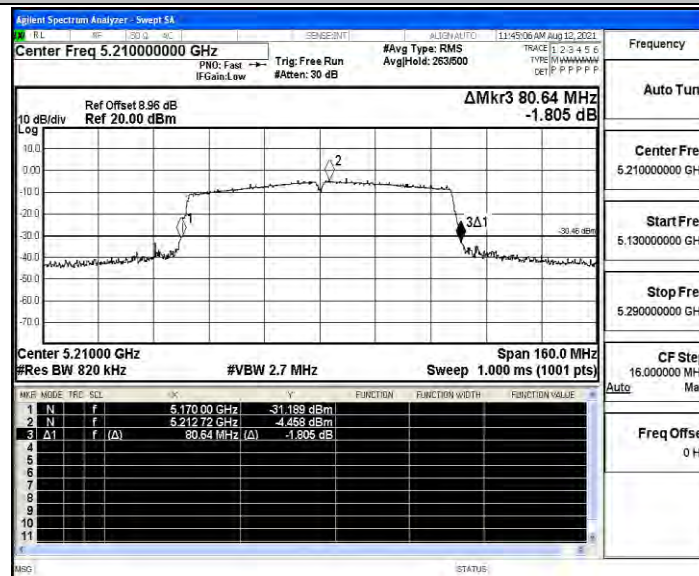




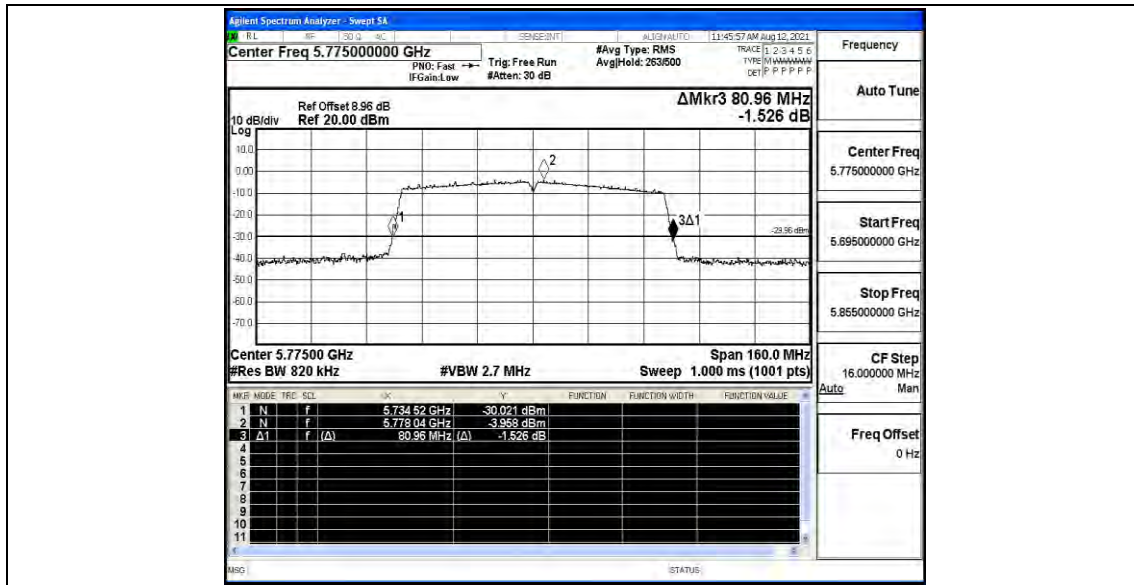
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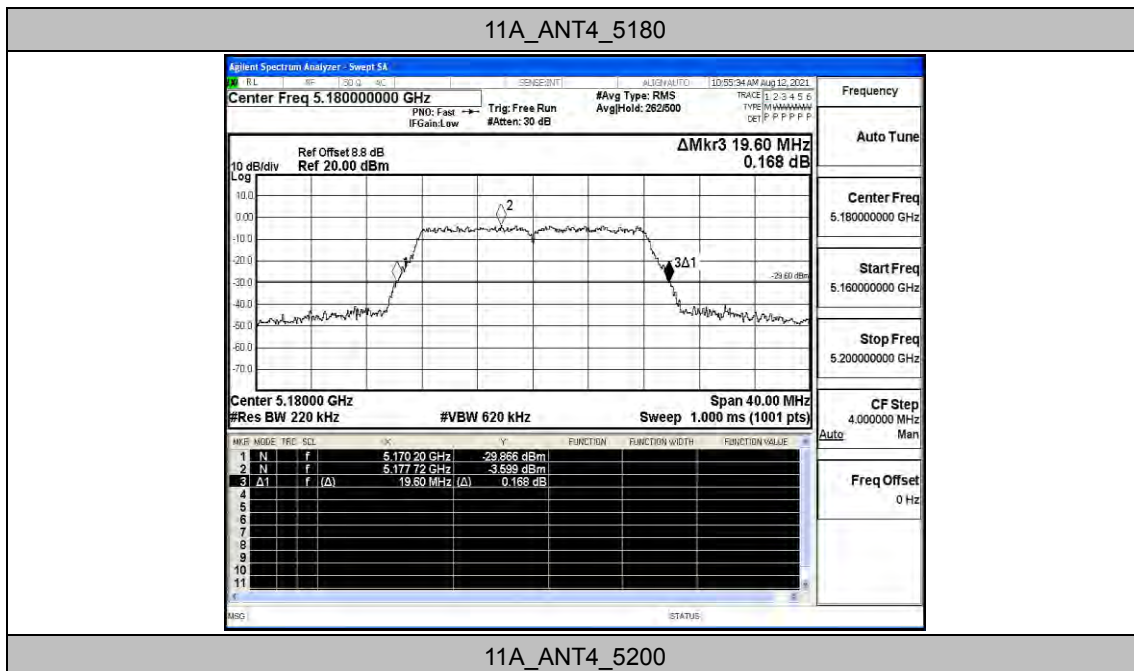
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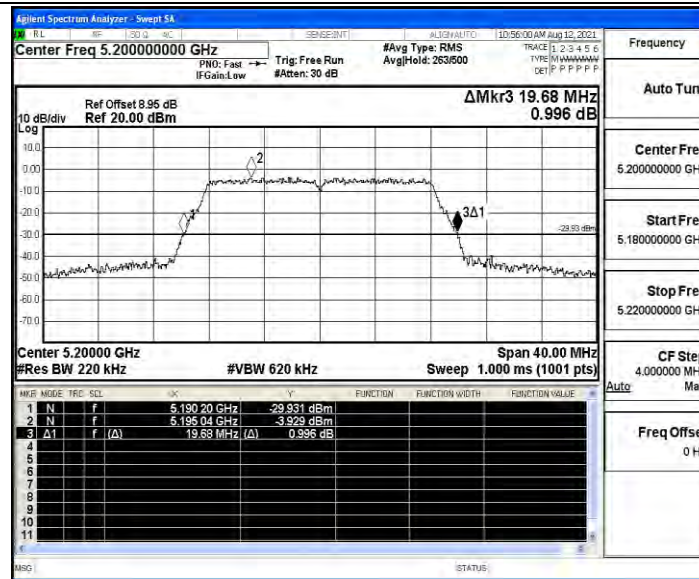
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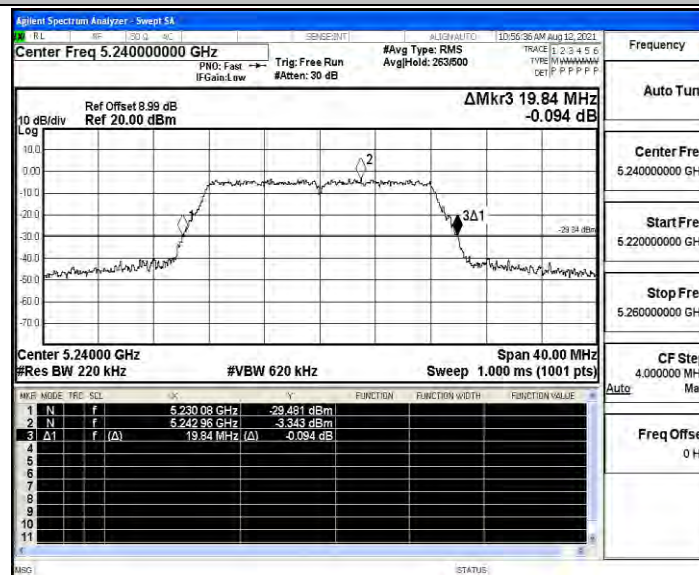
11A_ANT4_5180



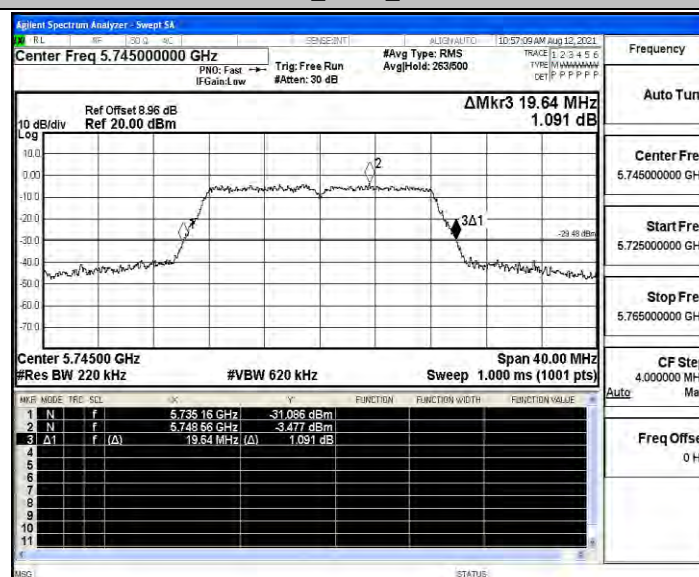
11A_ANT4_5200



11A_ANT4_5240

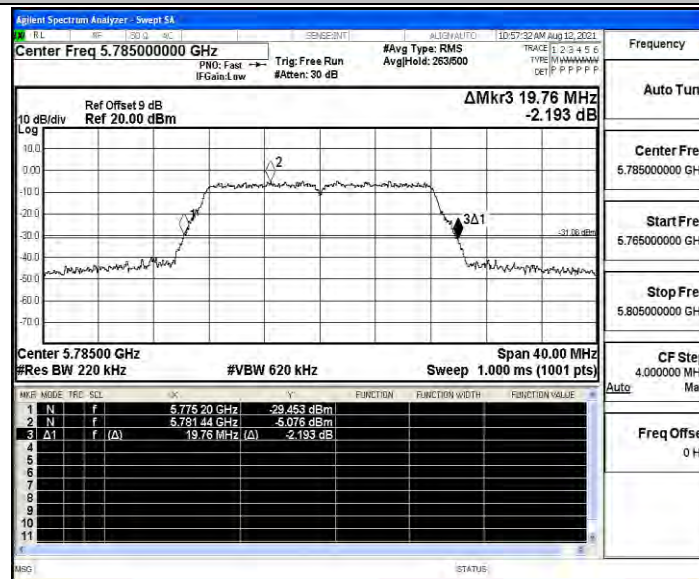


11A_ANT4_5745

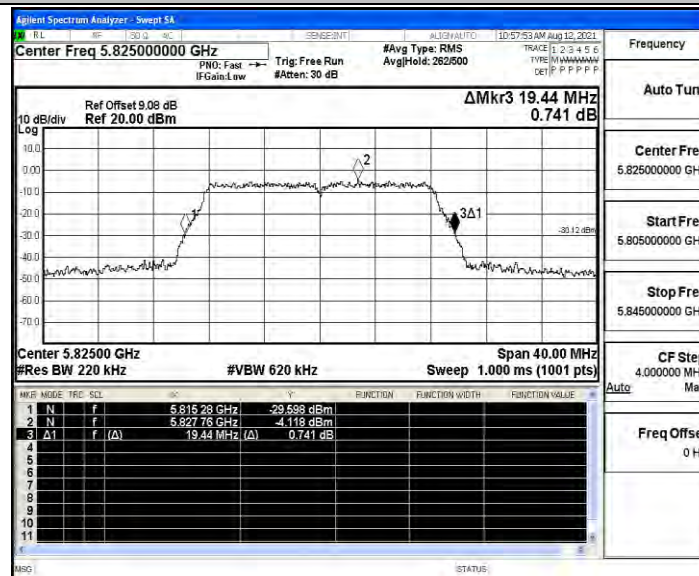




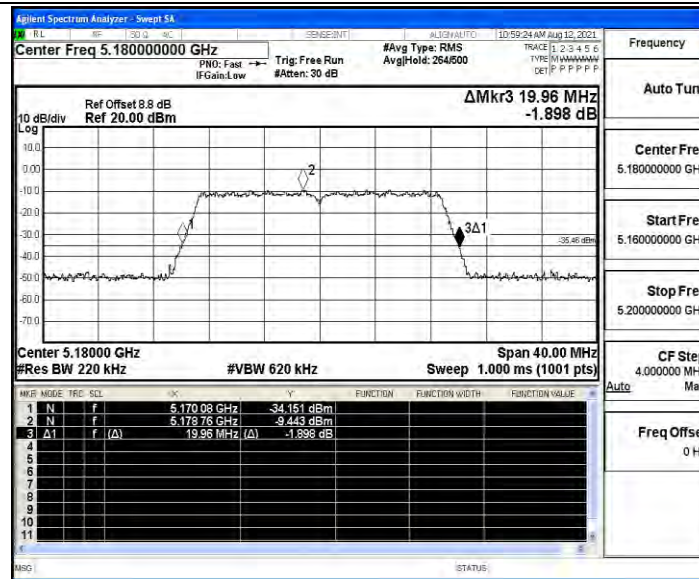
11A_ANT4_5785



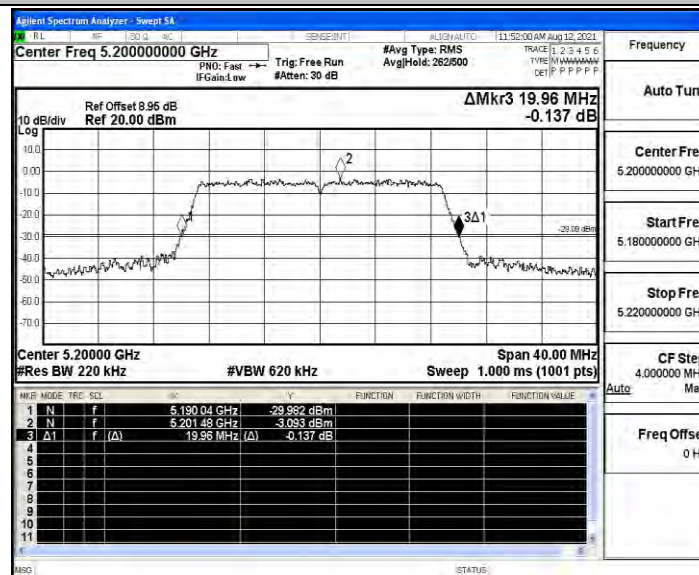
11A_ANT4_5825



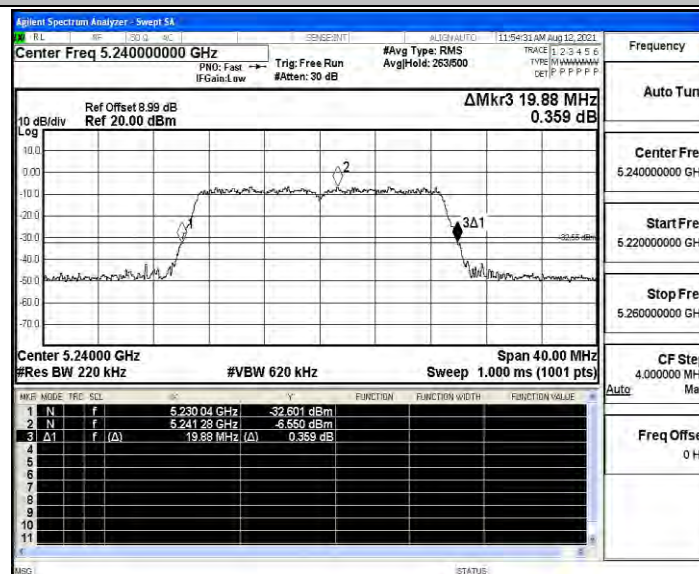
11N20SISO_ANT4_5180



11N20SISO_ANT4_5200

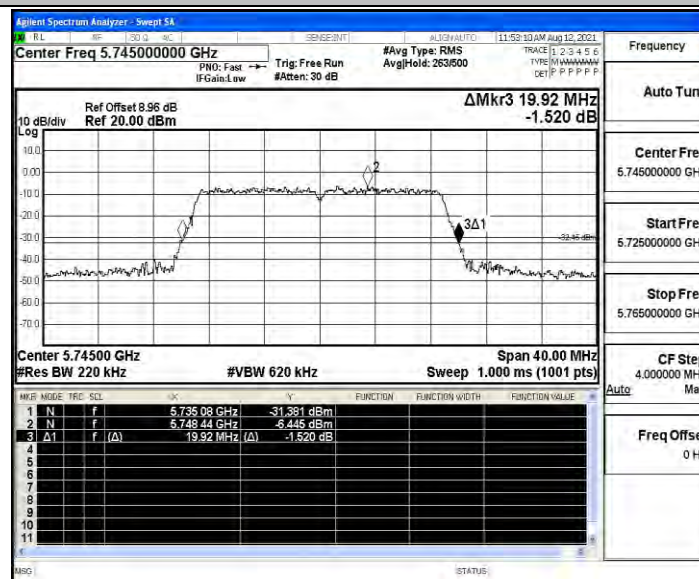


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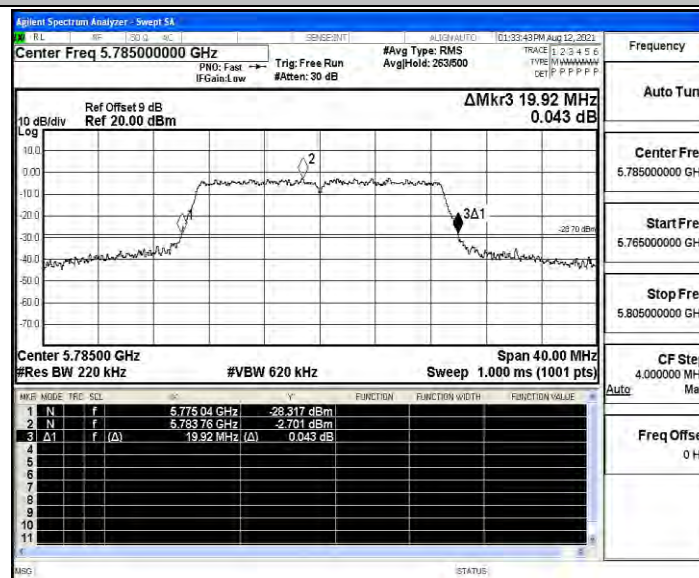




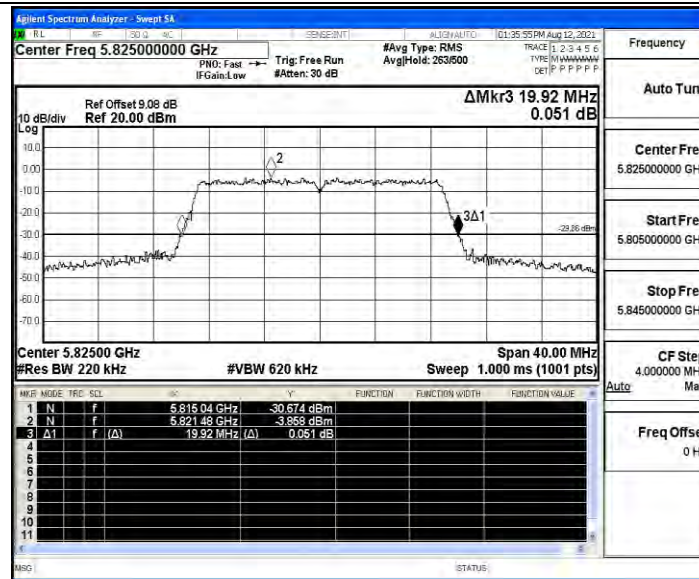
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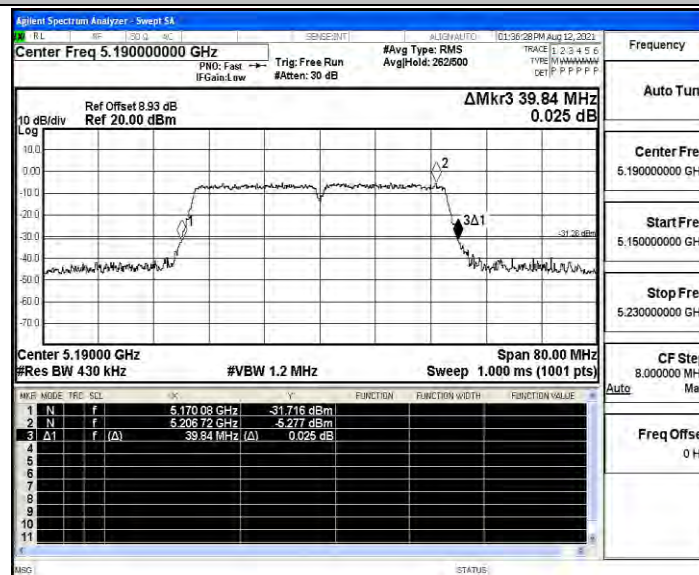
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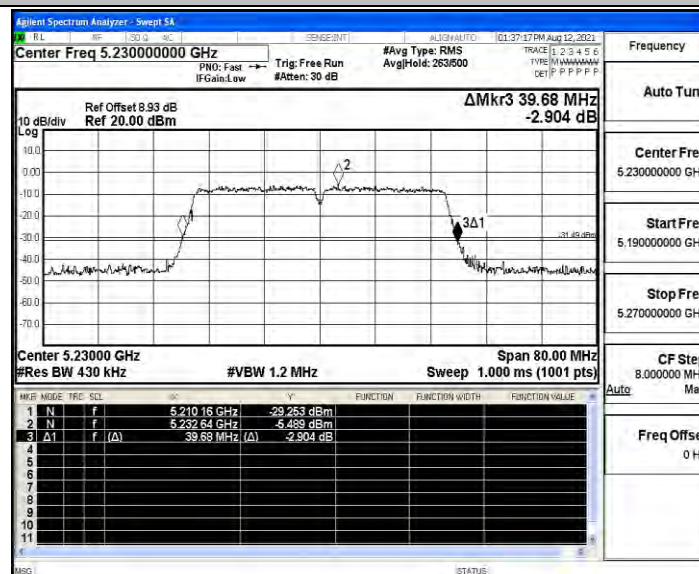
11N20SISO_ANT4_5825



11N40SISO_ANT4_5190

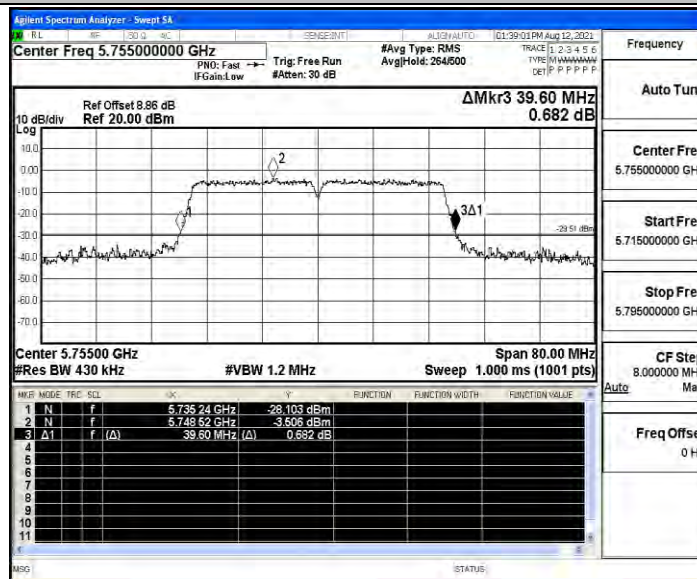


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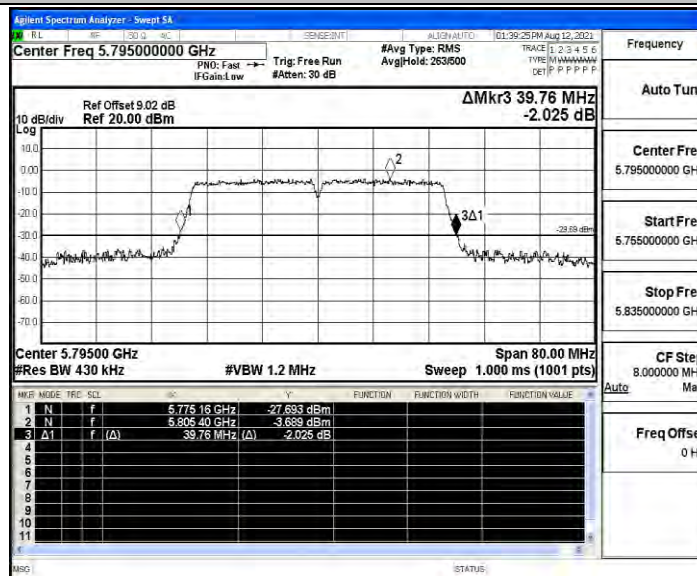




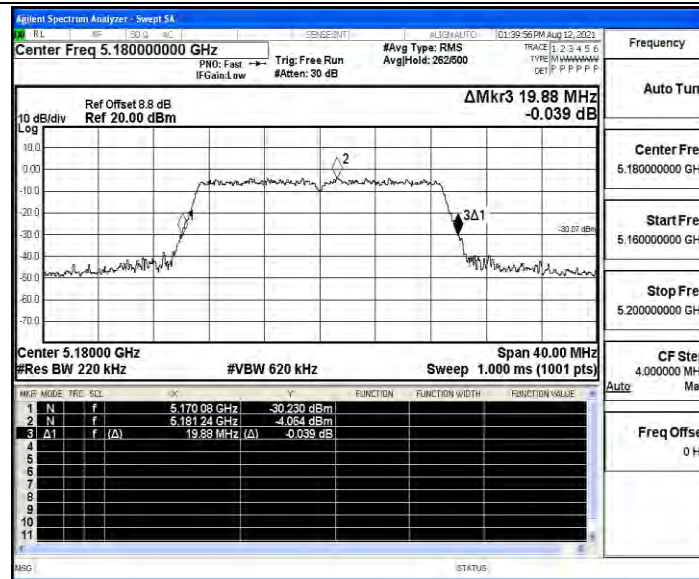
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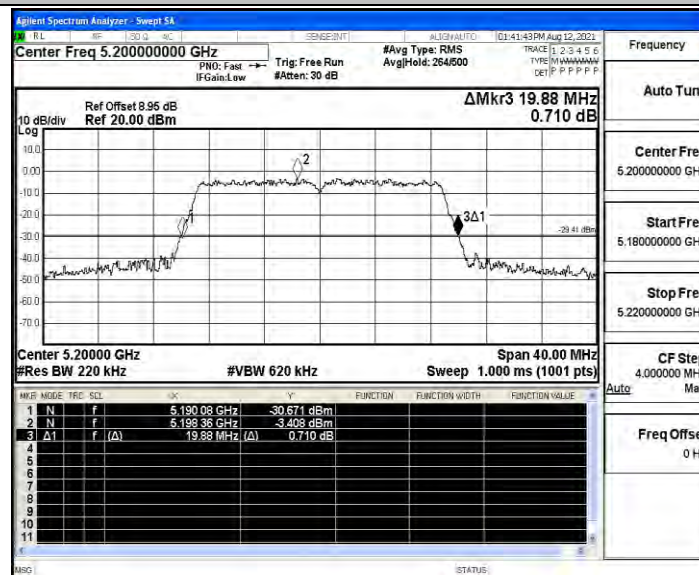
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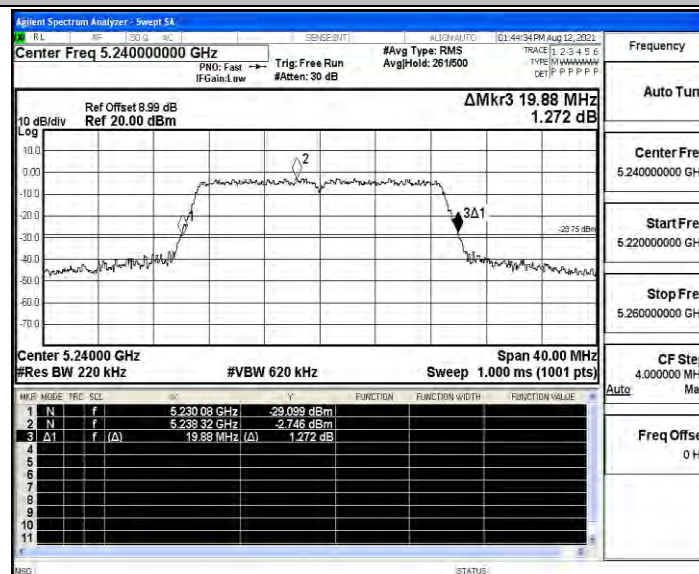
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11AC20SISO_ANT4_5200

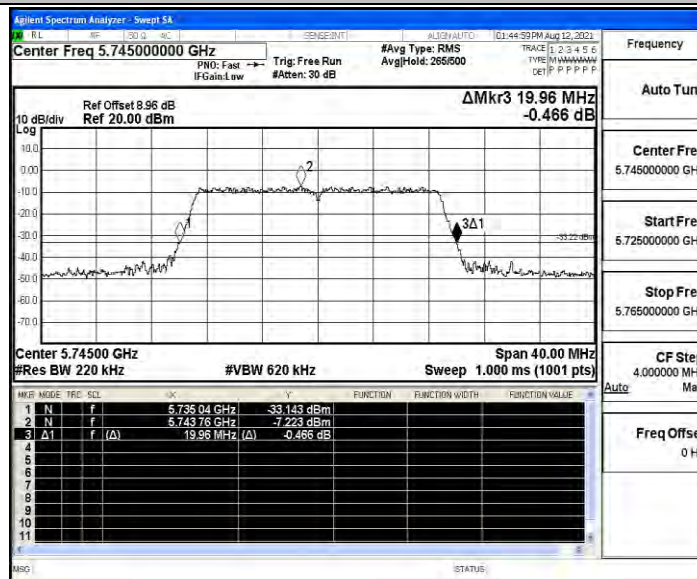


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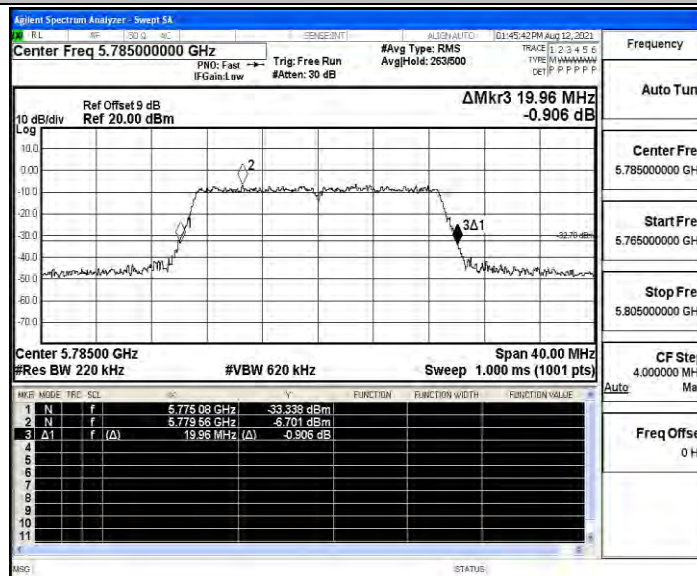




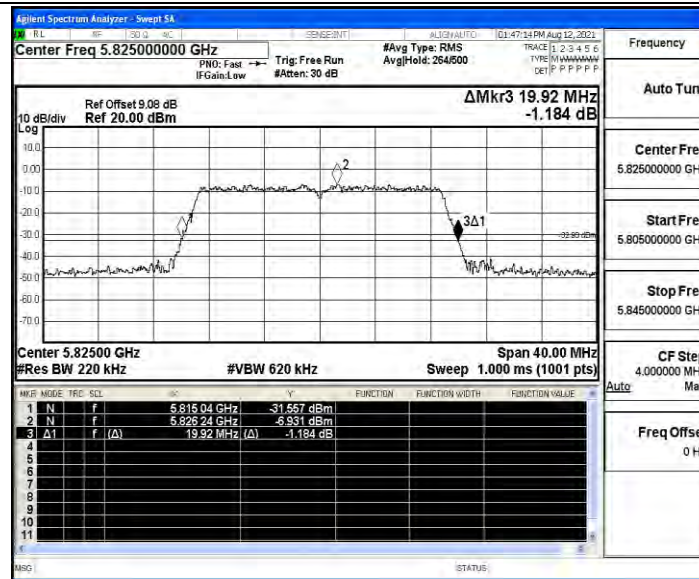
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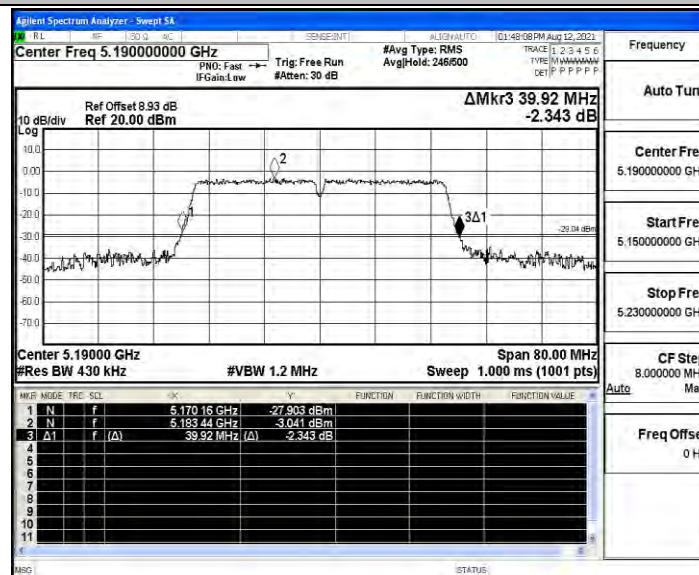
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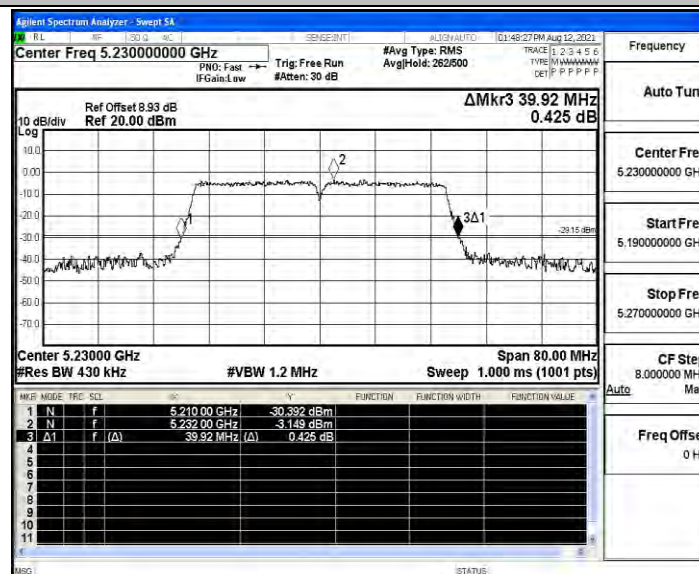
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11AC40SISO_ANT4_5190

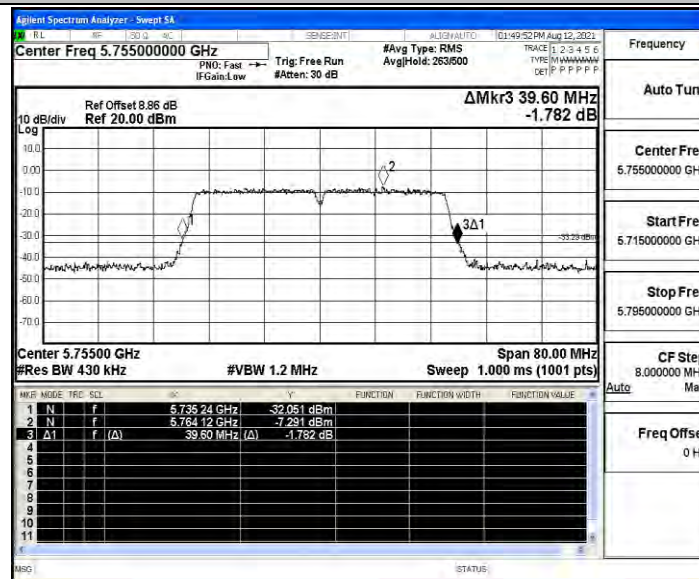


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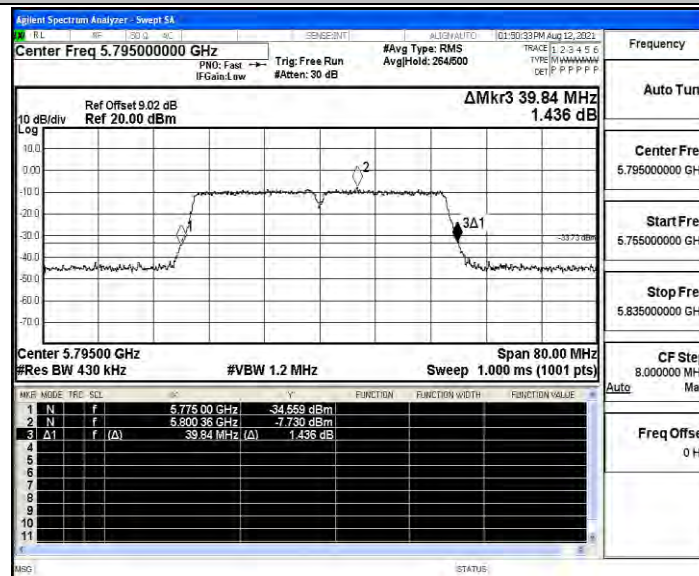




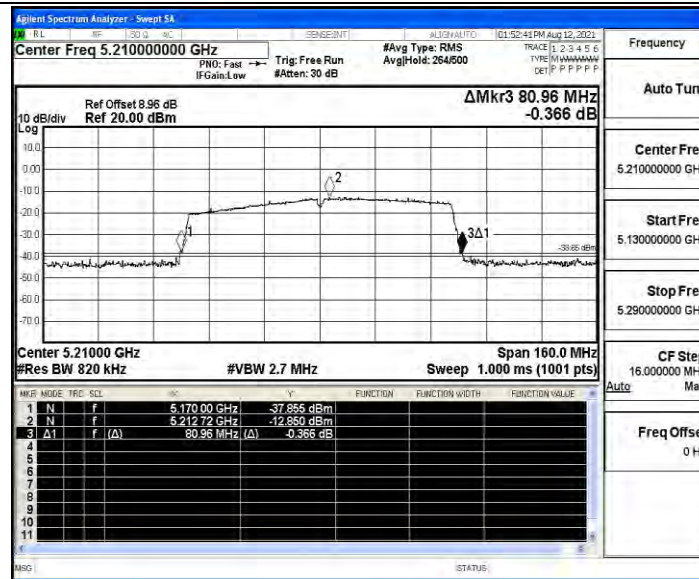
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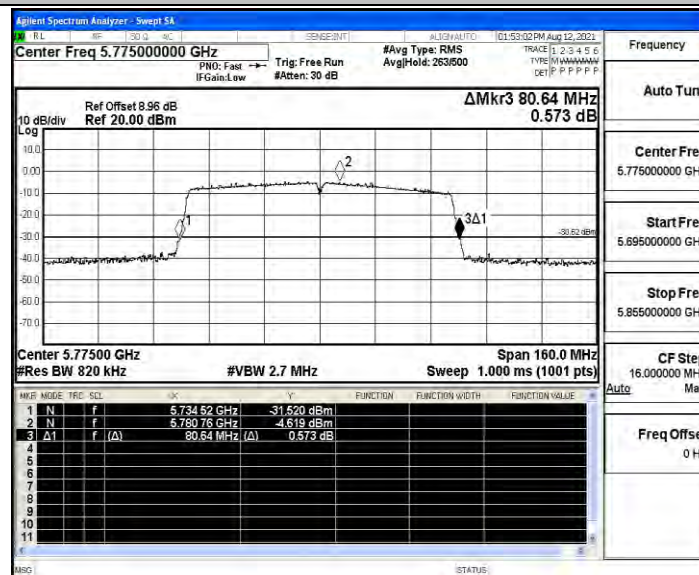
11AC40SISO_ANT4_5795



11AC80SISO_ANT4_5210



11AC80SISO_ANT4_5775





B.4 Occupied channel bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	ANT3	5180	17.302	5171.350	5188.652	---	PASS
		5200	17.208	5191.411	5208.619	---	PASS
		5240	17.172	5231.400	5248.572	---	PASS
		5745	17.369	5736.359	5753.728	---	PASS
		5785	17.523	5776.205	5793.728	---	PASS
		5825	17.492	5816.152	5833.644	---	PASS
11N20SISO	ANT3	5180	18.128	5170.928	5189.056	---	PASS
		5200	18.163	5190.961	5209.124	---	PASS
		5240	18.303	5230.859	5249.162	---	PASS
		5745	18.810	5735.584	5754.394	---	PASS
		5785	18.250	5775.883	5794.133	---	PASS
		5825	18.213	5815.885	5834.098	---	PASS
11N40SISO	ANT3	5190	36.777	5171.658	5208.435	---	PASS
		5230	36.880	5211.585	5248.465	---	PASS
		5755	38.675	5735.670	5774.345	---	PASS
		5795	37.026	5776.497	5813.523	---	PASS
11AC20SISO	ANT3	5180	18.509	5170.791	5189.300	---	PASS
		5200	18.067	5190.989	5209.056	---	PASS
		5240	18.123	5230.944	5249.067	---	PASS
		5745	18.602	5735.685	5754.287	---	PASS
		5785	18.097	5775.959	5794.056	---	PASS
		5825	18.001	5815.987	5833.988	---	PASS
11AC40SISO	ANT3	5190	36.677	5171.736	5208.413	---	PASS
		5230	36.616	5211.729	5248.345	---	PASS
		5755	36.583	5736.709	5773.292	---	PASS
		5795	36.623	5776.714	5813.337	---	PASS
11AC80SISO	ANT3	5210	75.573	5172.329	5247.902	---	PASS
		5775	75.585	5737.101	5812.686	---	PASS

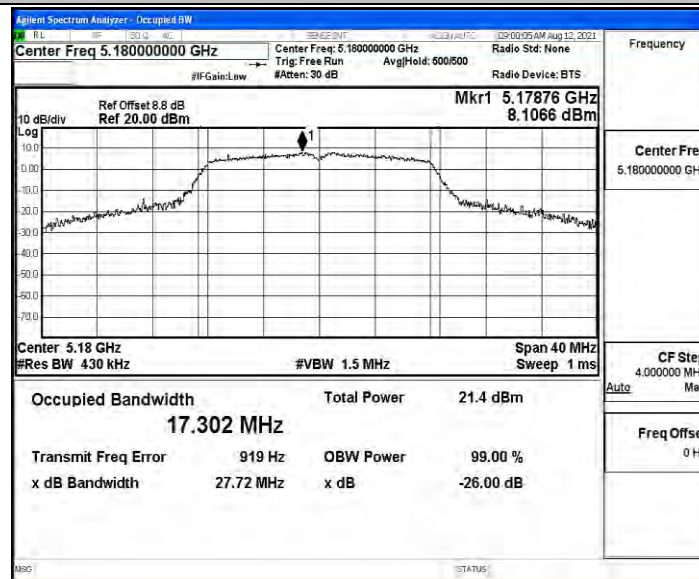


TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	ANT4	5180	17.726	5171.150	5188.876	---	PASS
		5200	17.309	5191.384	5208.693	---	PASS
		5240	17.370	5231.335	5248.705	---	PASS
		5745	18.214	5735.878	5754.092	---	PASS
		5785	17.856	5776.090	5793.946	---	PASS
		5825	17.800	5816.094	5833.894	---	PASS
11N20SISO	ANT4	5180	18.438	5170.800	5189.238	---	PASS
		5200	18.324	5190.864	5209.188	---	PASS
		5240	18.237	5230.889	5249.126	---	PASS
		5745	18.414	5735.792	5754.206	---	PASS
		5785	18.216	5775.902	5794.118	---	PASS
		5825	18.255	5815.886	5834.141	---	PASS
11N40SISO	ANT4	5190	36.728	5171.694	5208.422	---	PASS
		5230	36.602	5211.715	5248.317	---	PASS
		5755	37.762	5736.042	5773.804	---	PASS
		5795	38.050	5775.911	5813.961	---	PASS
11AC20SISO	ANT4	5180	18.265	5170.881	5189.146	---	PASS
		5200	18.147	5190.953	5209.100	---	PASS
		5240	18.286	5230.869	5249.155	---	PASS
		5745	18.321	5735.845	5754.166	---	PASS
		5785	18.336	5775.823	5794.159	---	PASS
		5825	18.394	5815.776	5834.170	---	PASS
11AC40SISO	ANT4	5190	36.741	5171.695	5208.436	---	PASS
		5230	36.729	5211.689	5248.418	---	PASS
		5755	36.813	5736.595	5773.408	---	PASS
		5795	37.148	5776.387	5813.535	---	PASS
11AC80SISO	ANT4	5210	75.211	5172.494	5247.705	---	PASS
		5775	75.315	5737.279	5812.594	---	PASS

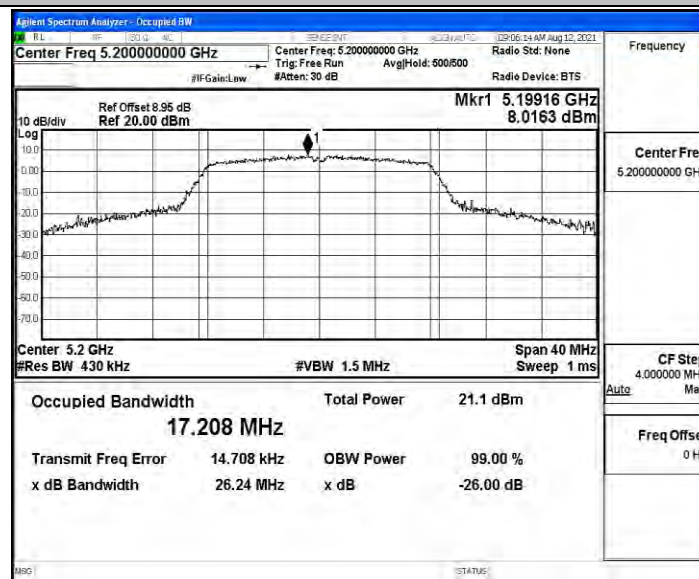


Test Graphs

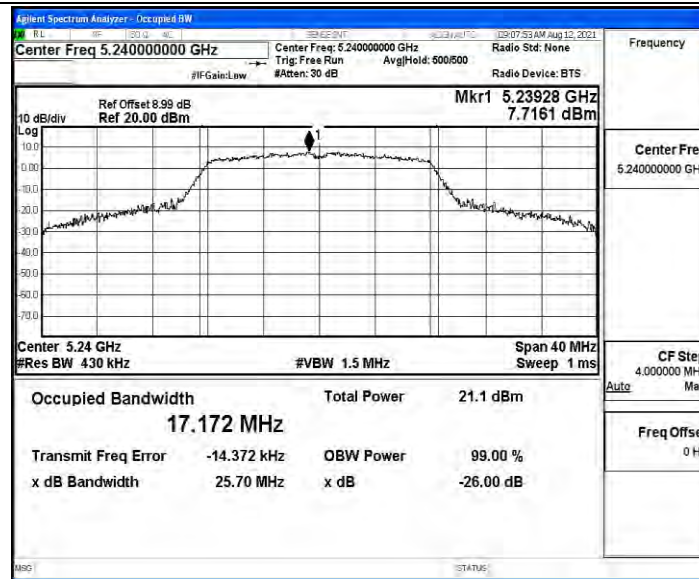
11A_ANT3_5180



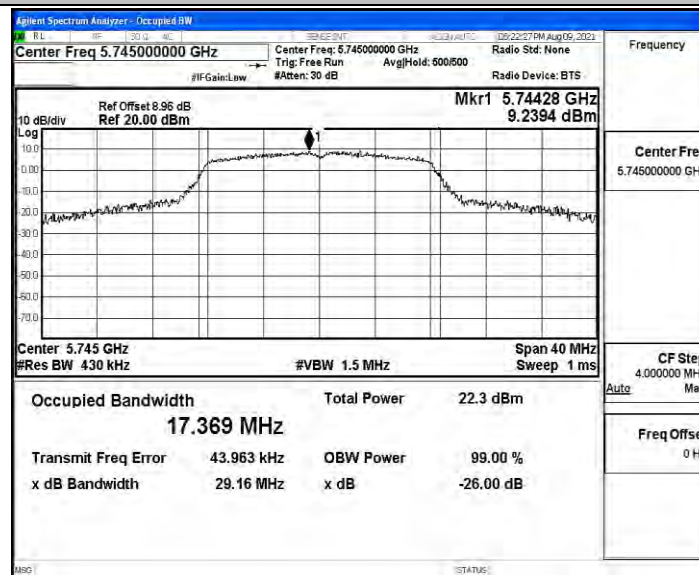
11A_ANT3_5200



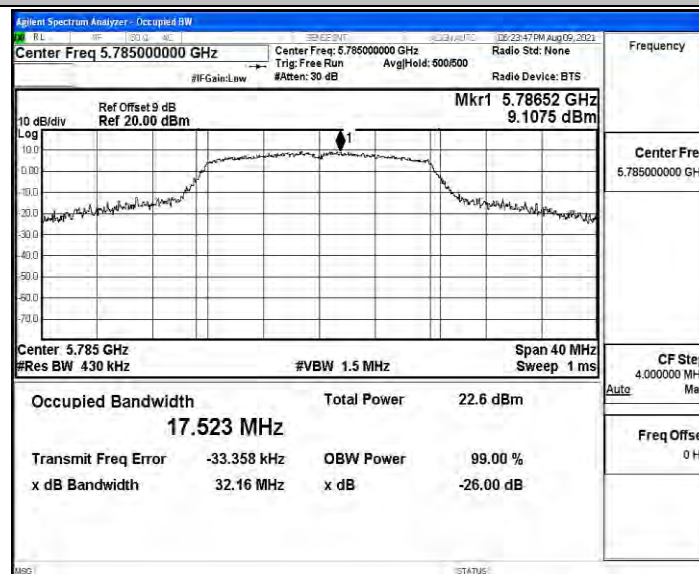
11A_ANT3_5240



11A_ANT3_5745

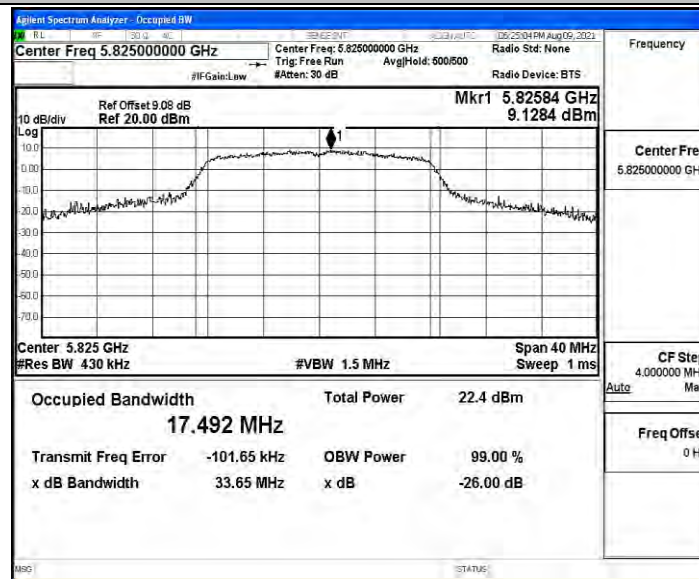


11A_ANT3_5785

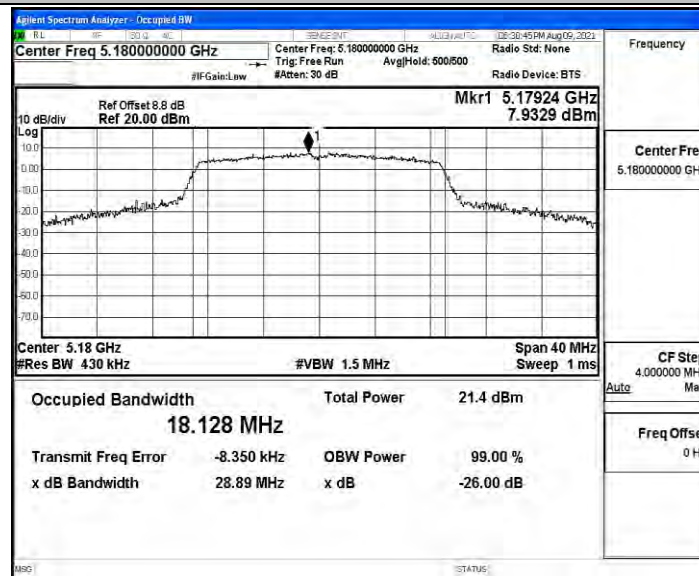




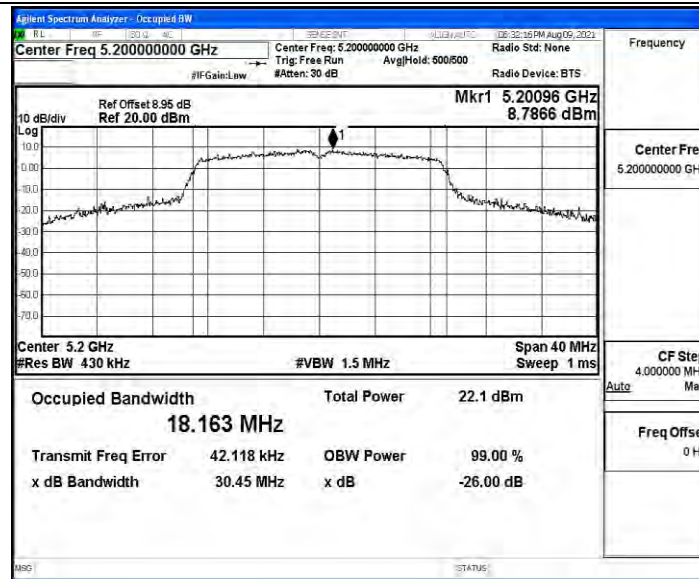
11A_ANT3_5825



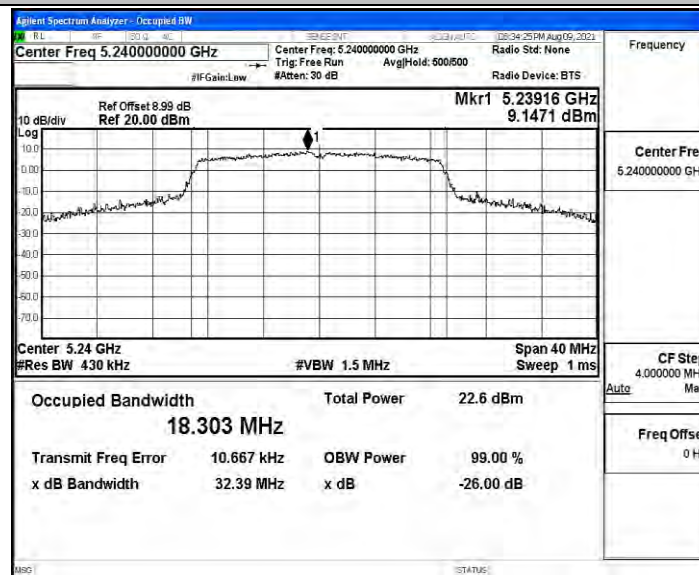
11N20SISO_ANT3_5180



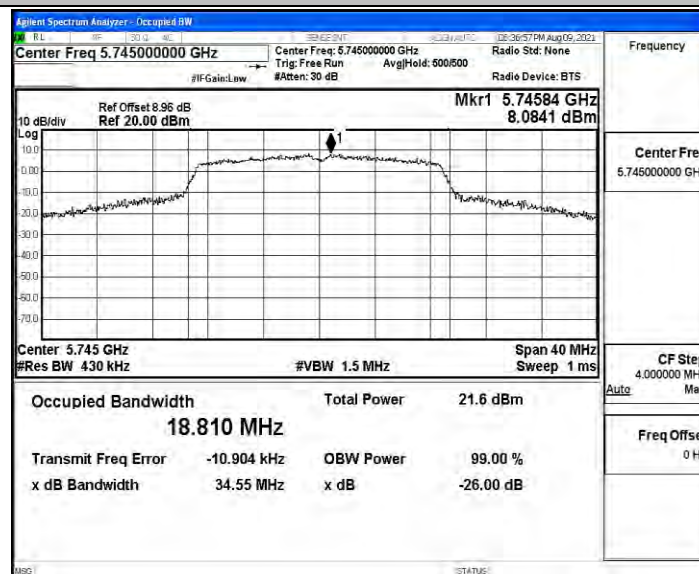
11N20SISO_ANT3_5200



11N20SISO_ANT3_5240

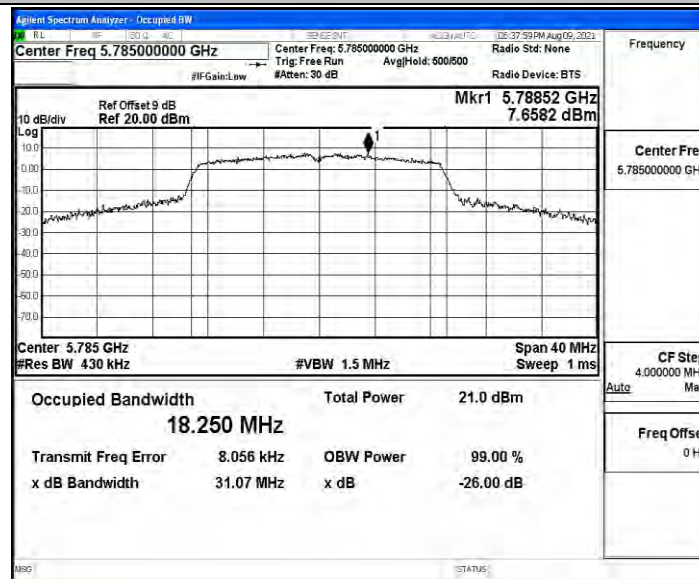


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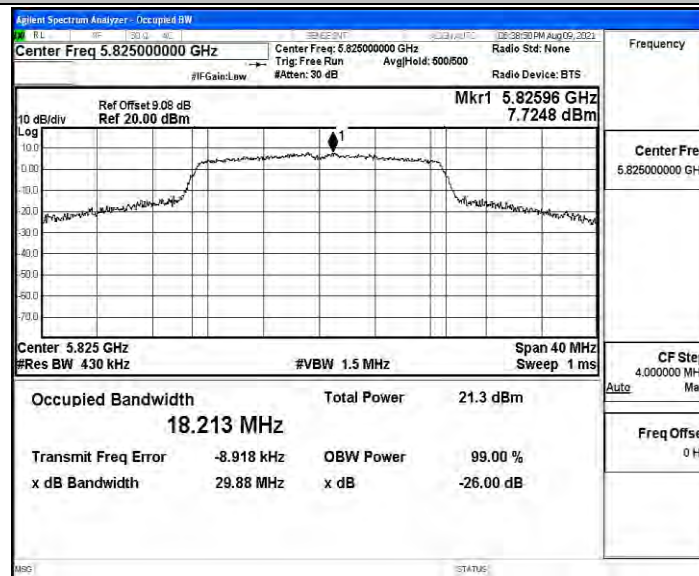




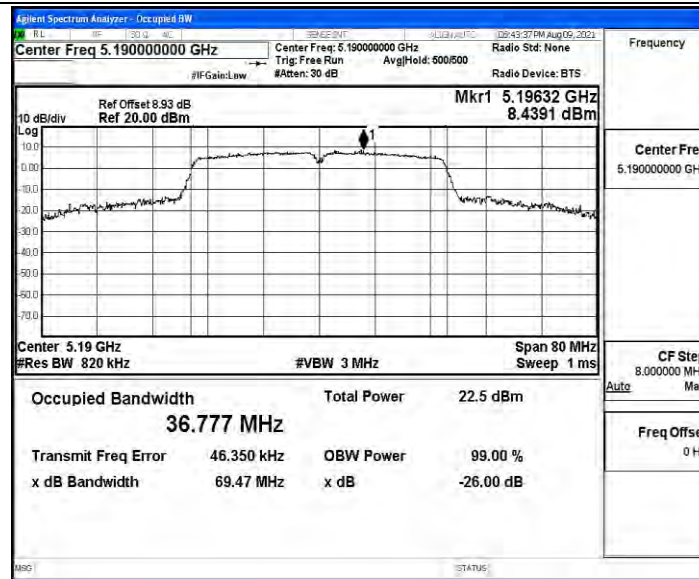
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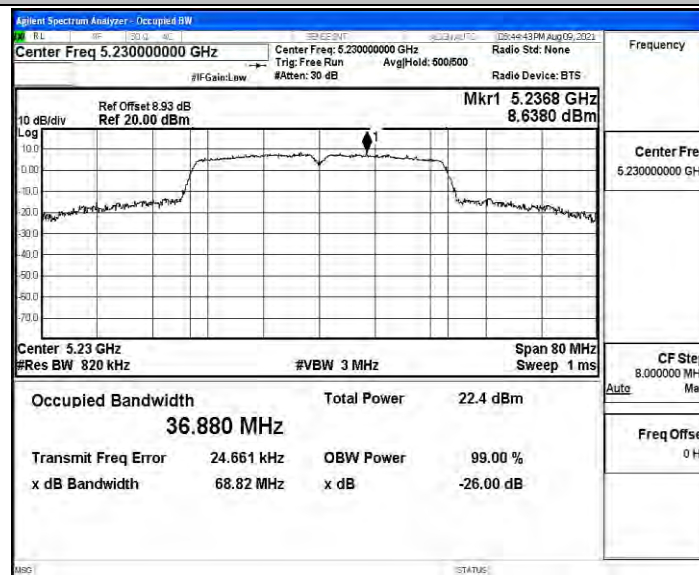
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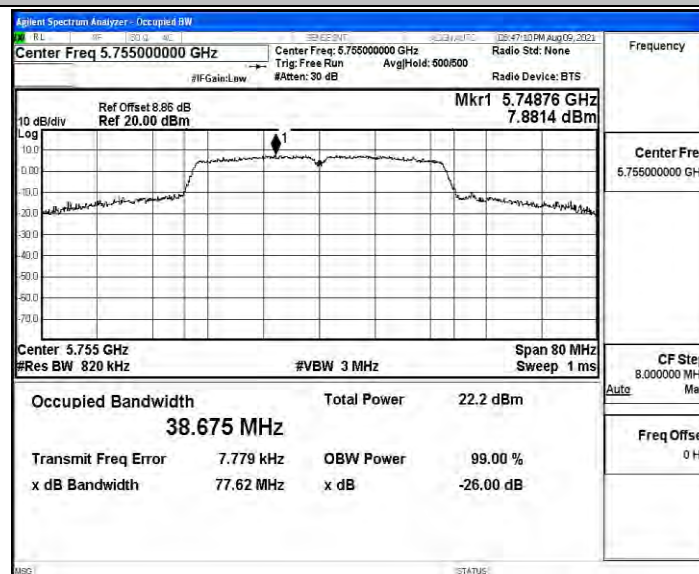
11N40SISO_ANT3_5190



11N40SISO_ANT3_5230

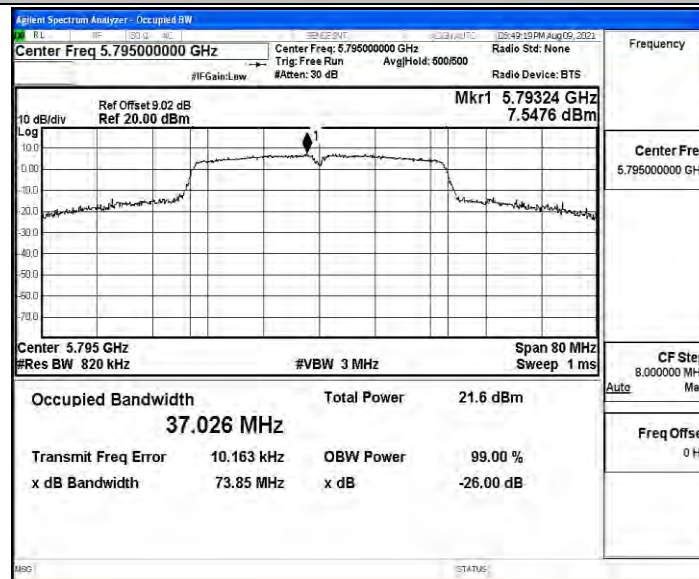


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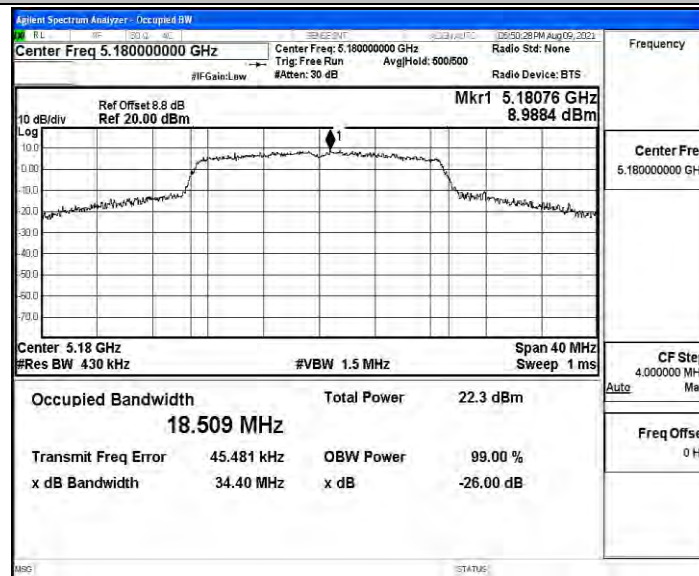




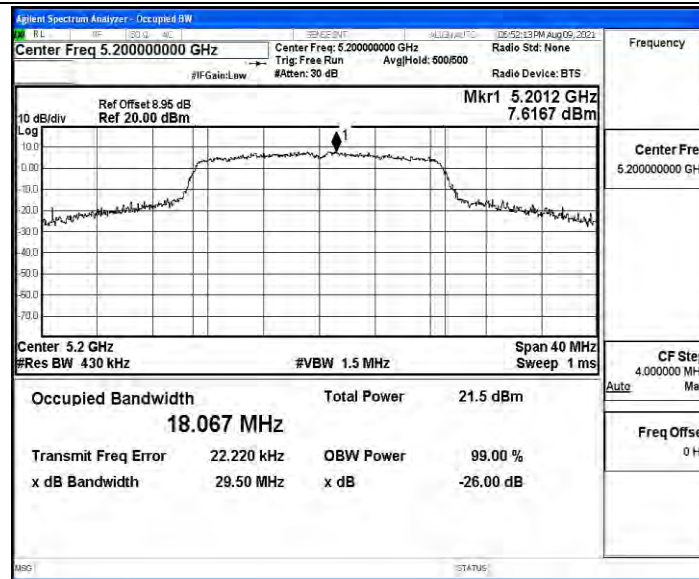
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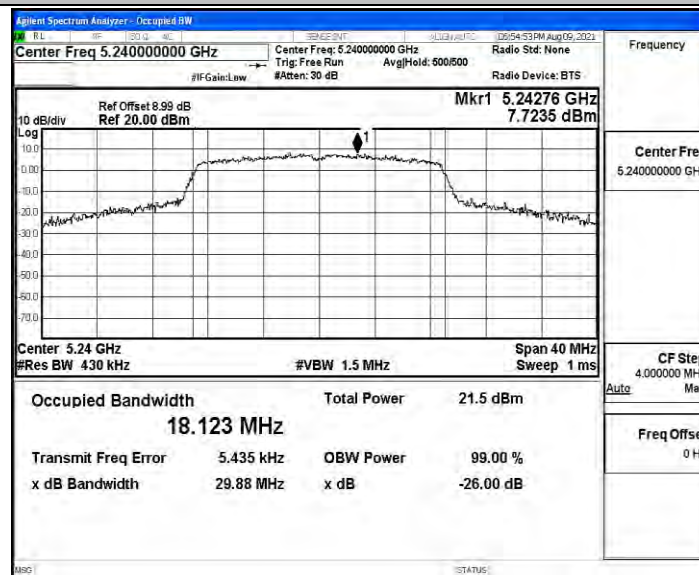
11AC20SISO_ANT3_5180



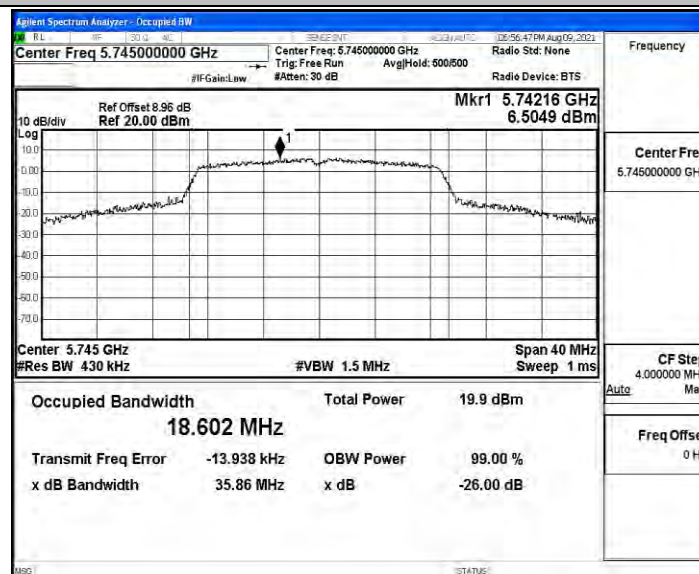
11AC20SISO_ANT3_5200



11AC20SISO_ANT3_5240

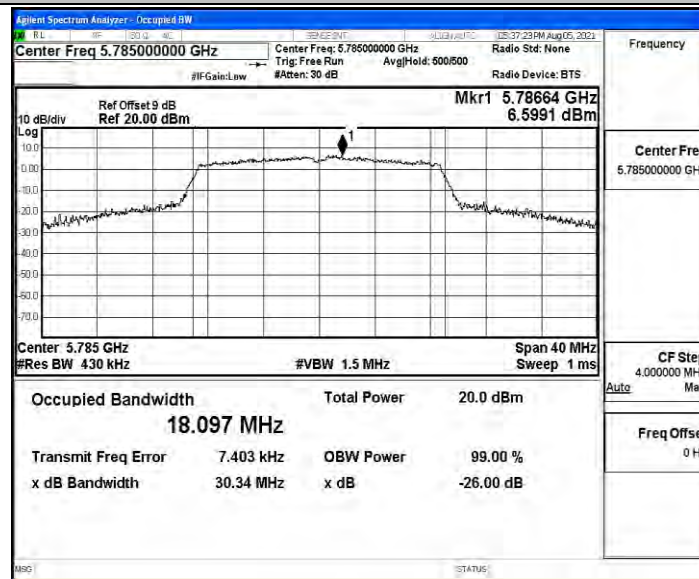


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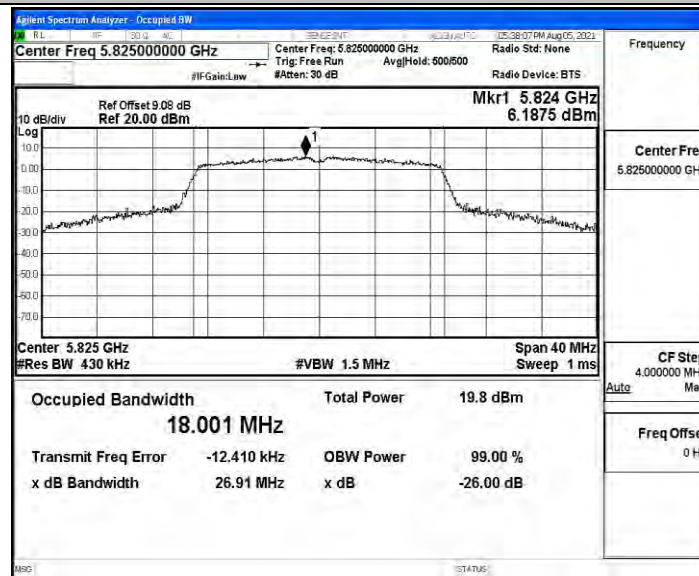




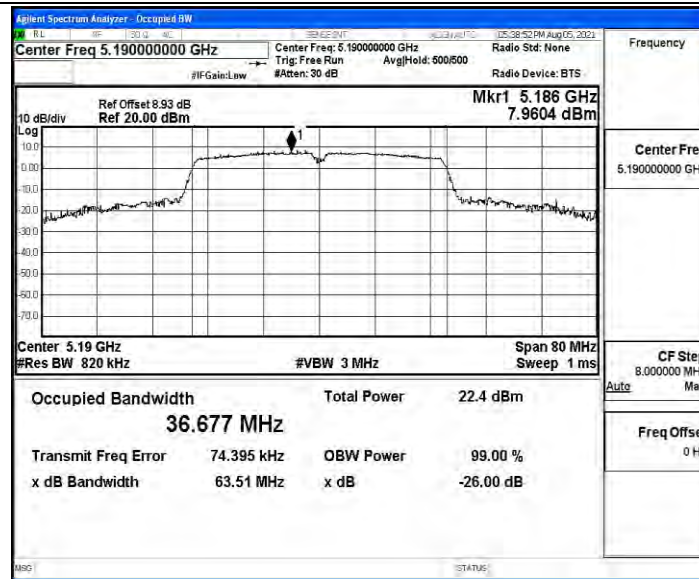
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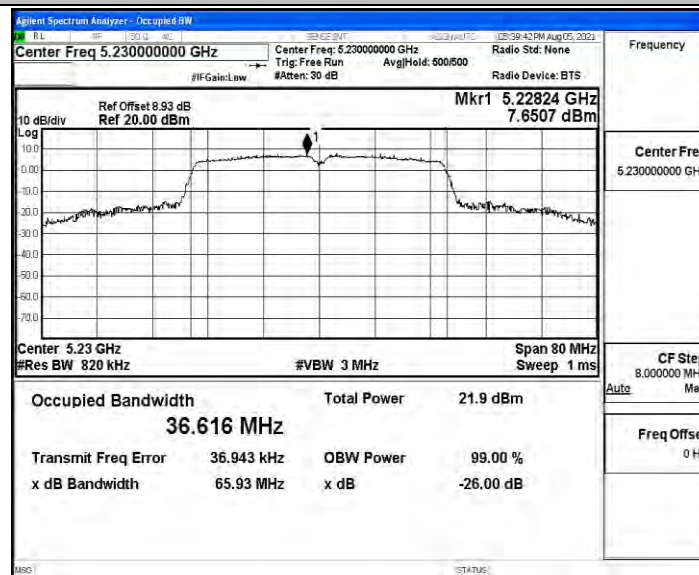
11AC20SISO_ANT3_5825



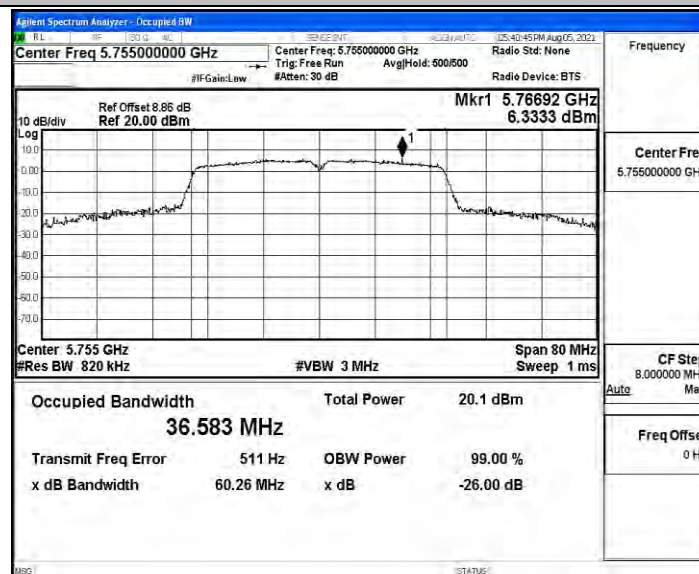
11AC40SISO_ANT3_5190



11AC40SISO_ANT3_5230

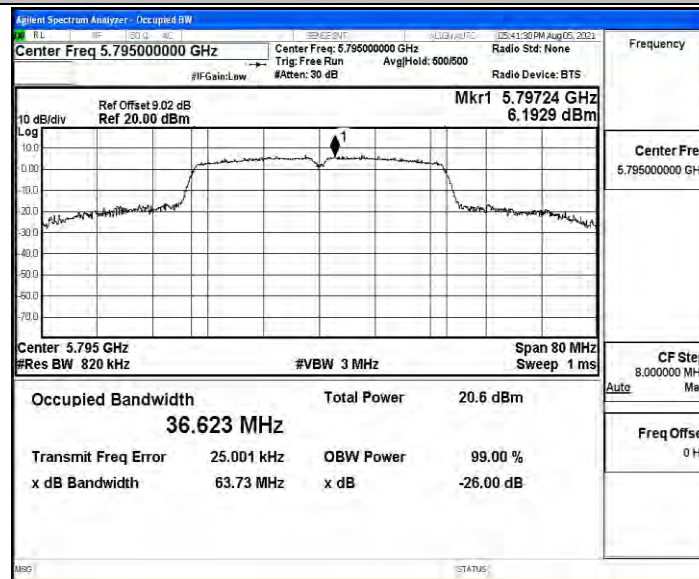


11AC40SISO_ANT3_5755

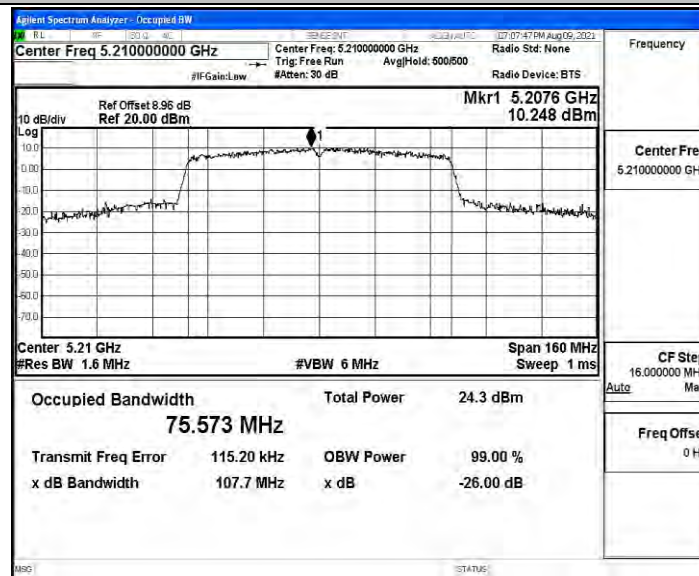




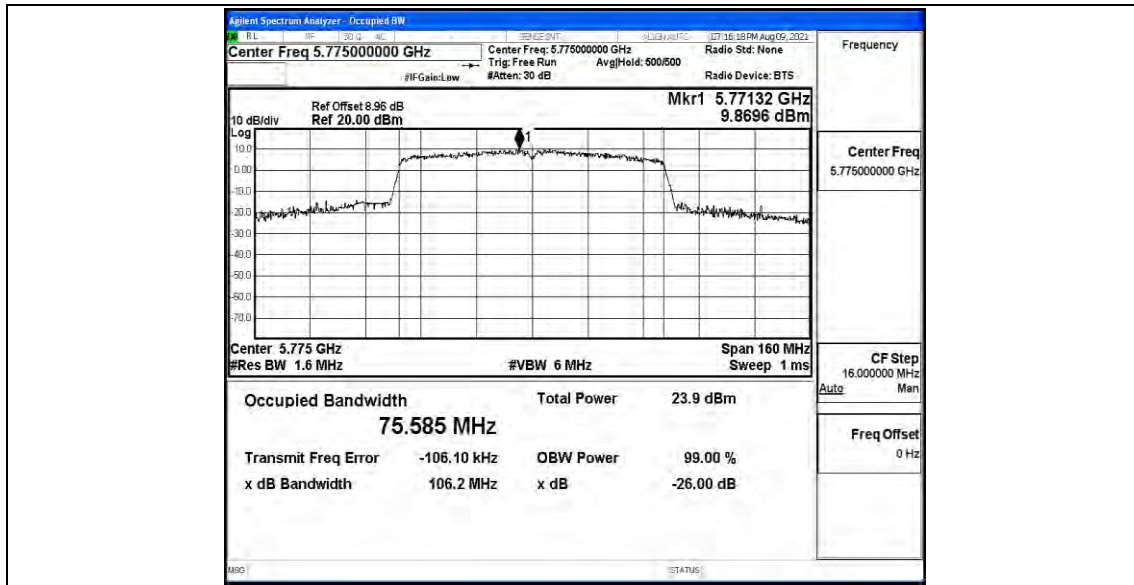
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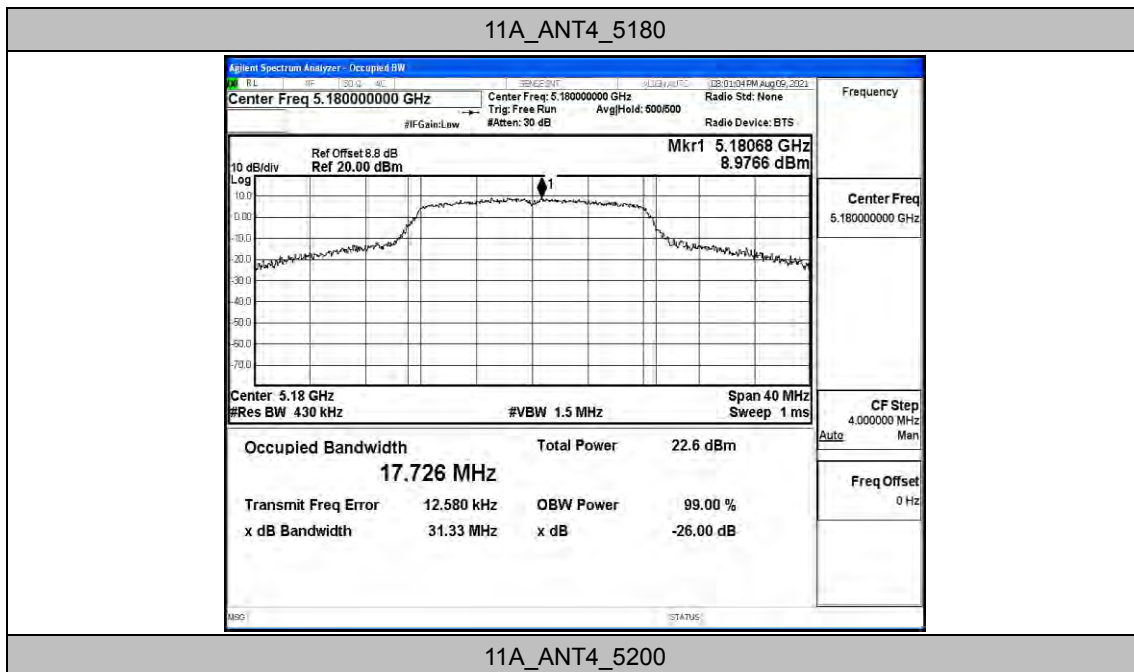
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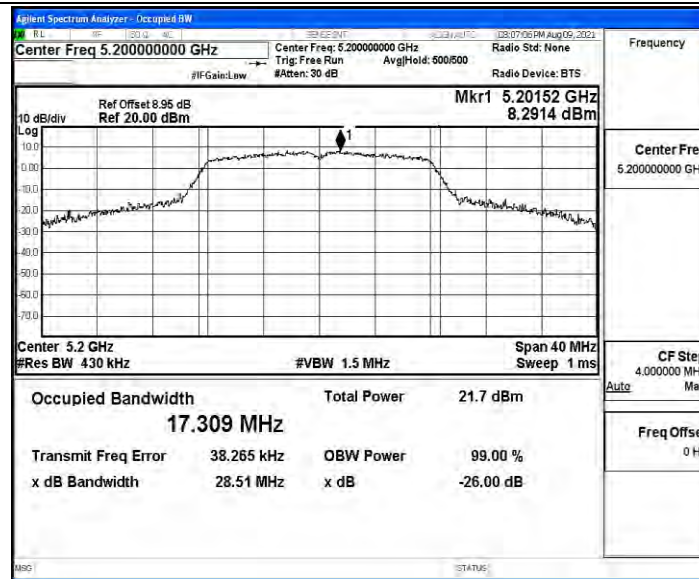


11AC80SISO_ANT3_5775

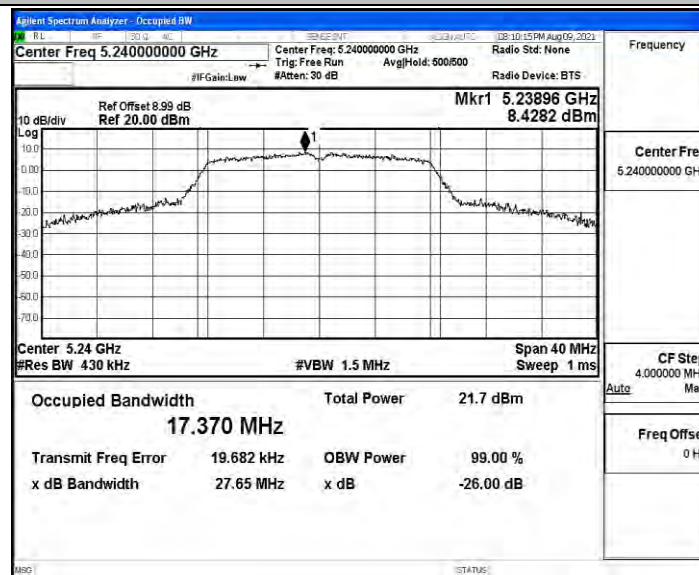


11A_ANT4_5180

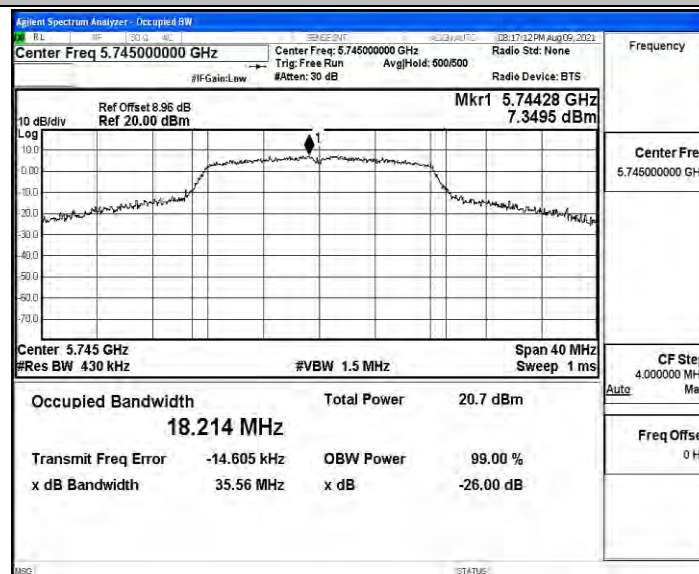




11A_ANT4_5240

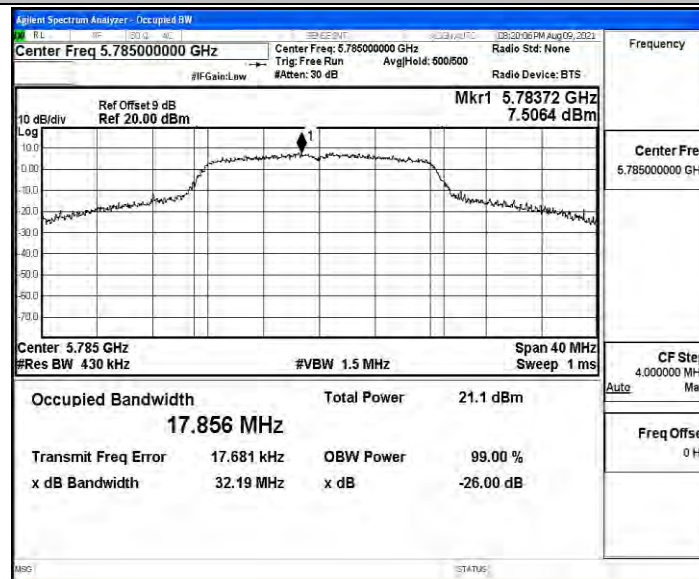


11A_ANT4_5745

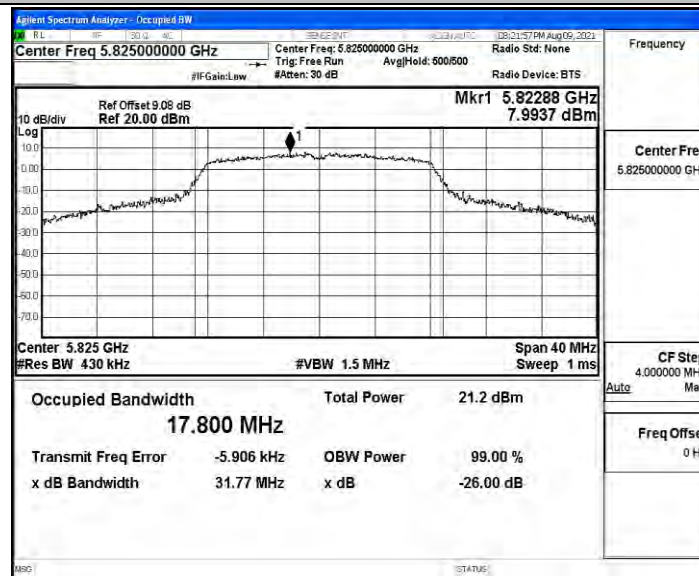




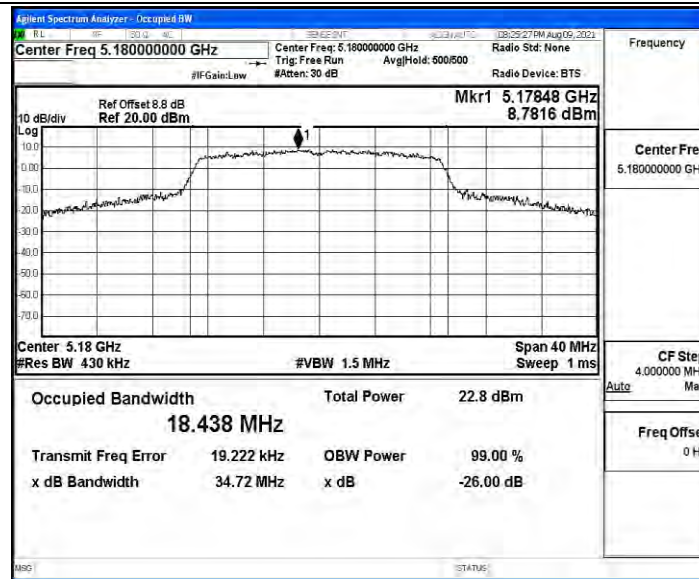
11A_ANT4_5785



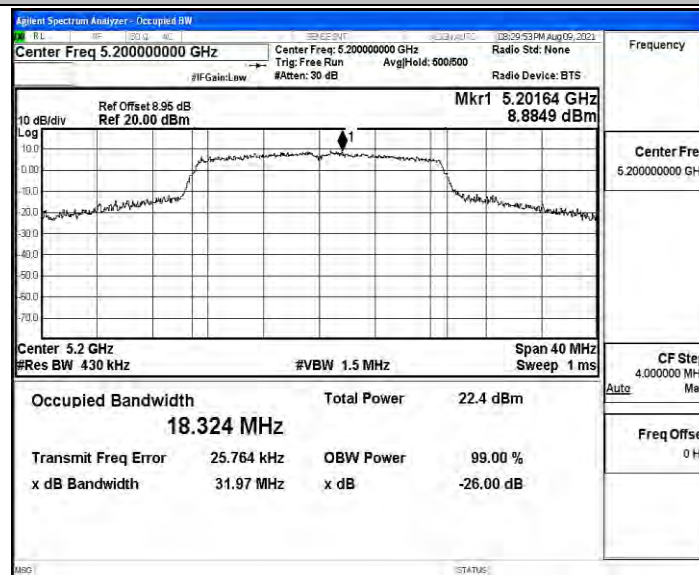
11A_ANT4_5825



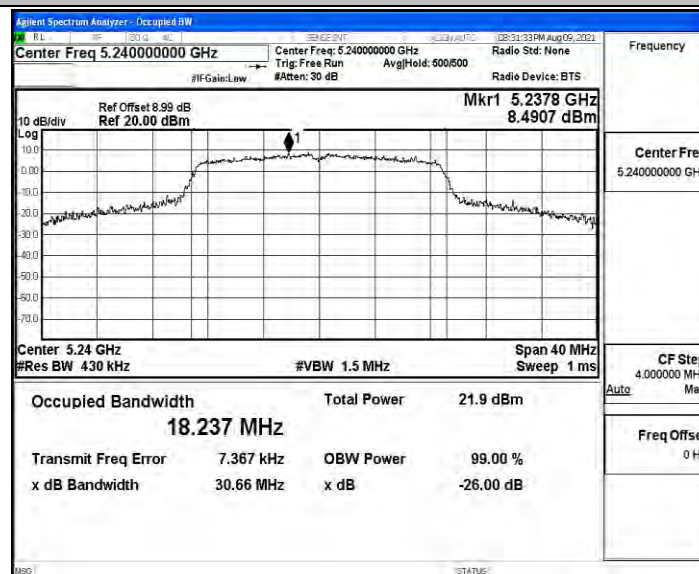
11N20SISO_ANT4_5180



11N20SISO_ANT4_5200

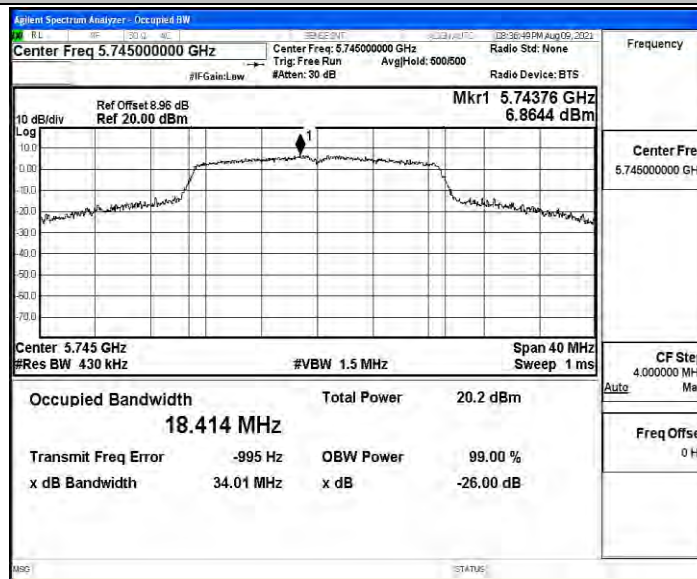


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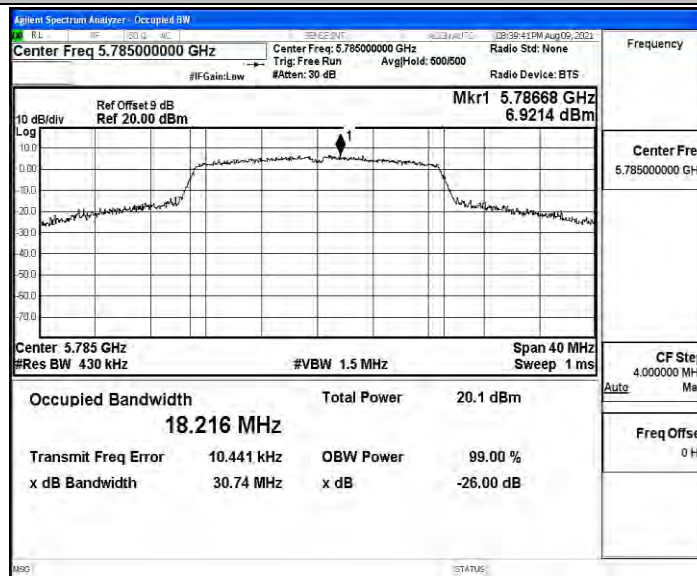




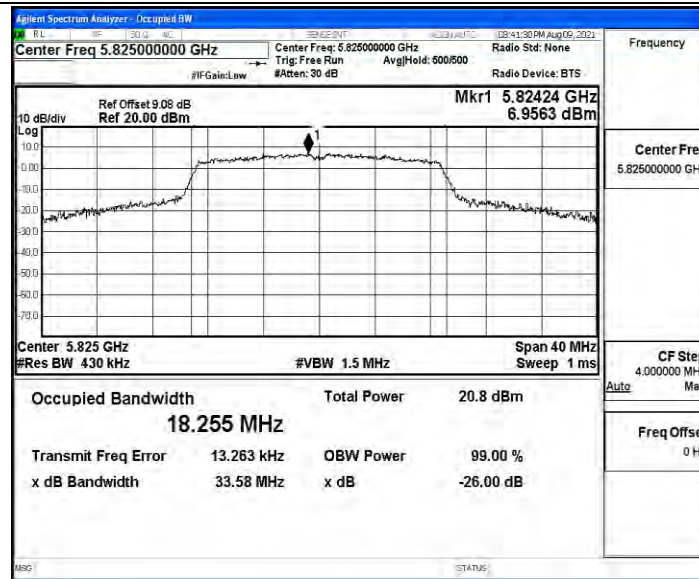
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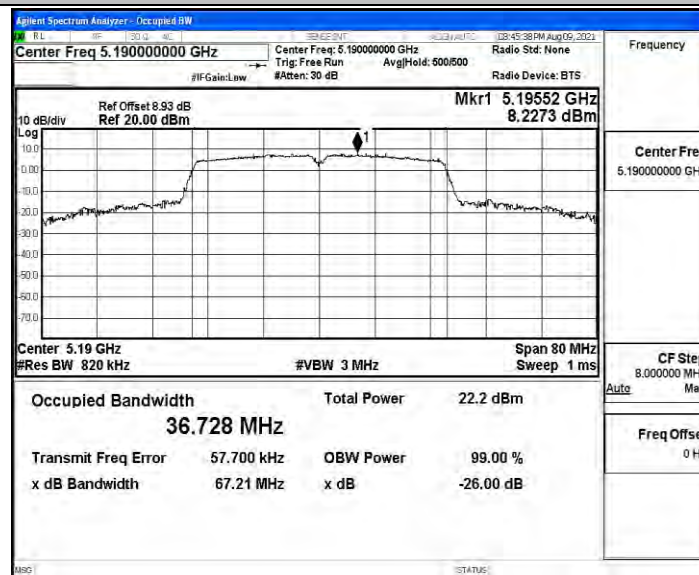
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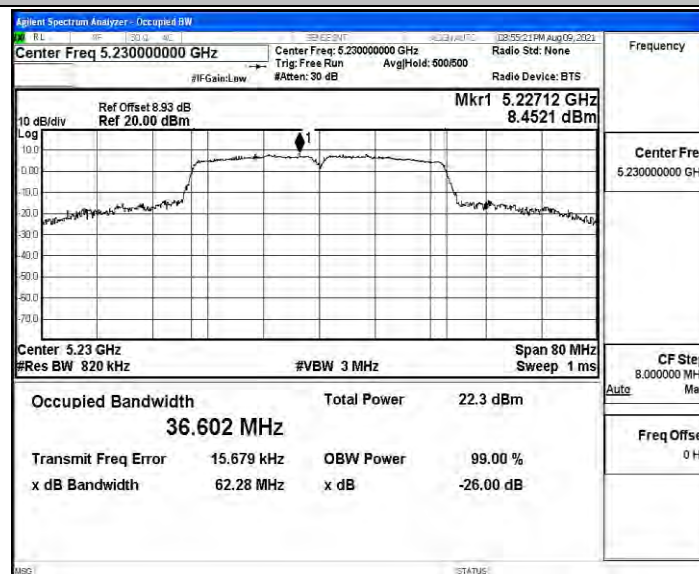
11N20SISO_ANT4_5825



11N40SISO_ANT4_5190

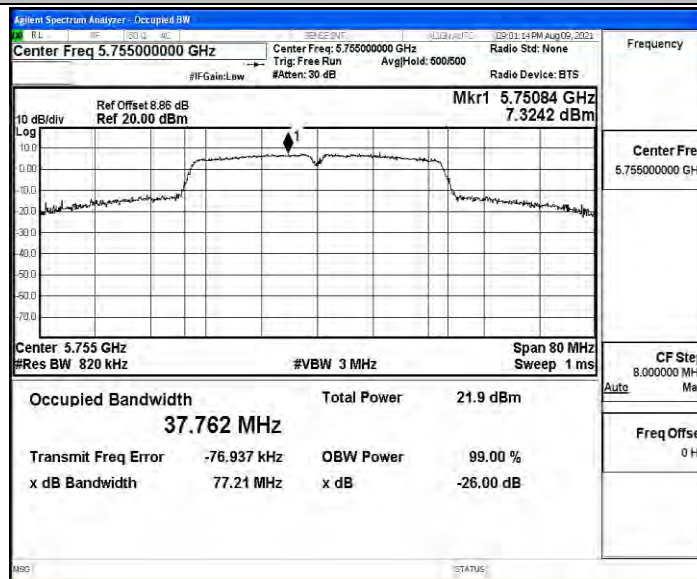


11N40SISO_ANT4_5230

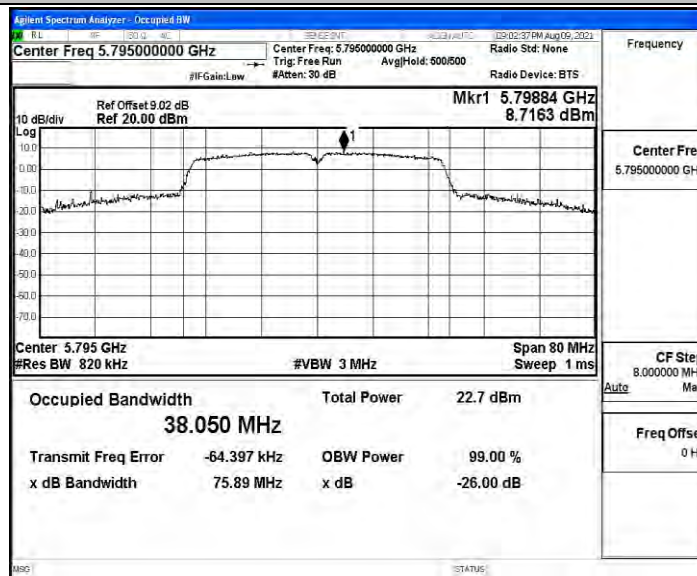




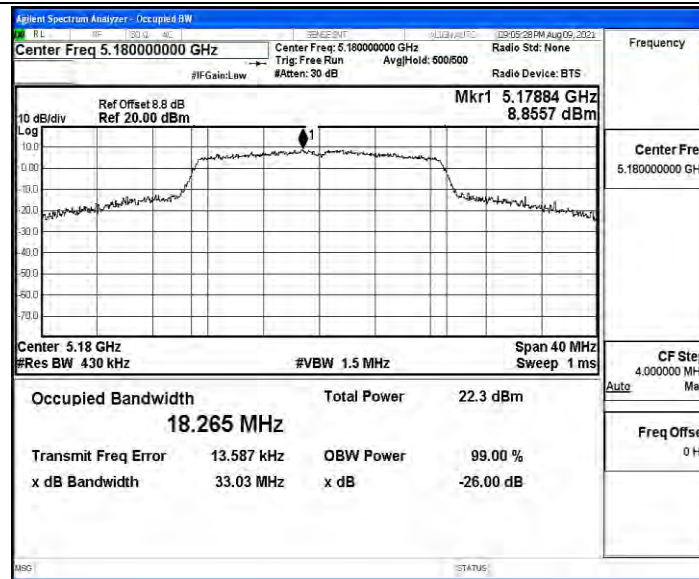
11N40SISO_ANT4_5755



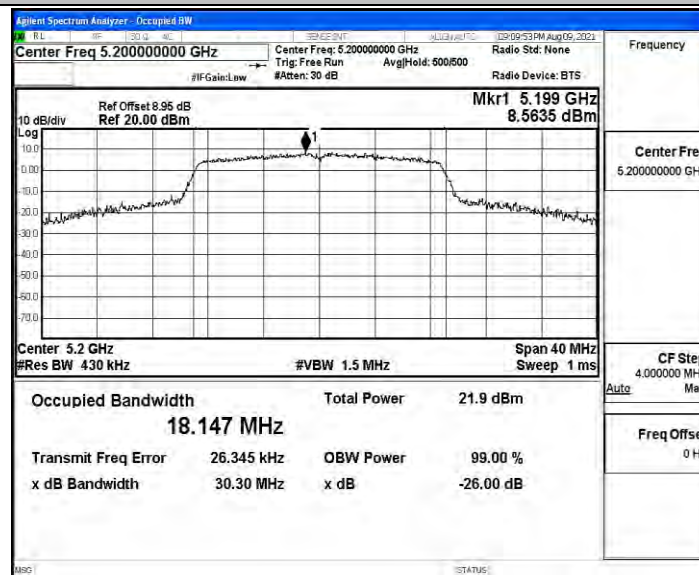
11N40SISO_ANT4_5795



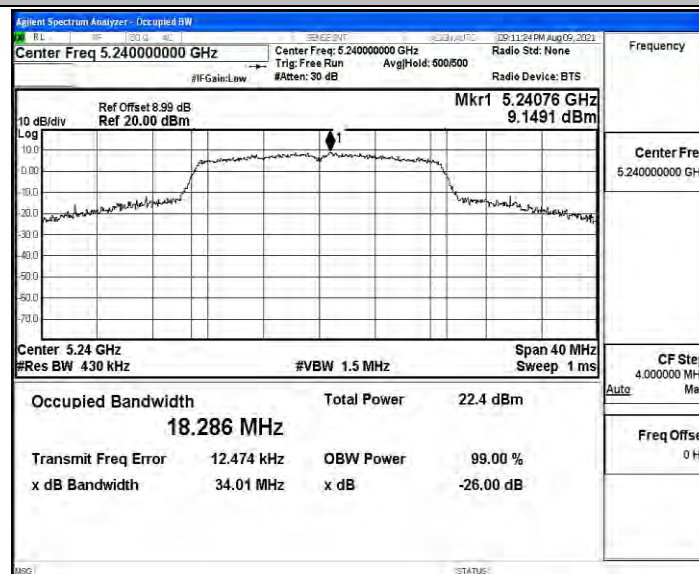
11AC20SISO_ANT4_5180



11AC20SISO_ANT4_5200

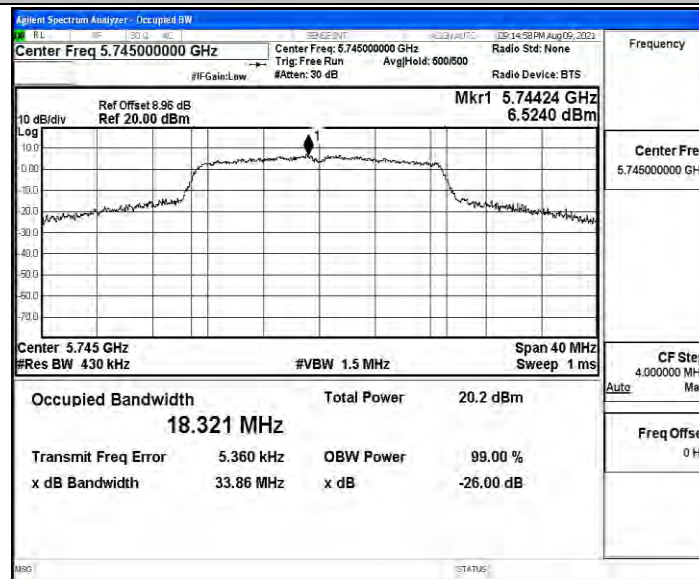


11AC20SISO_ANT4_5240

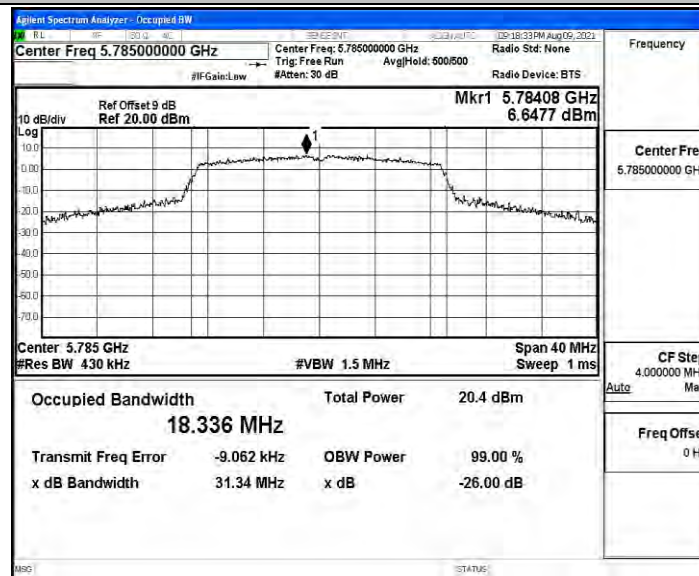




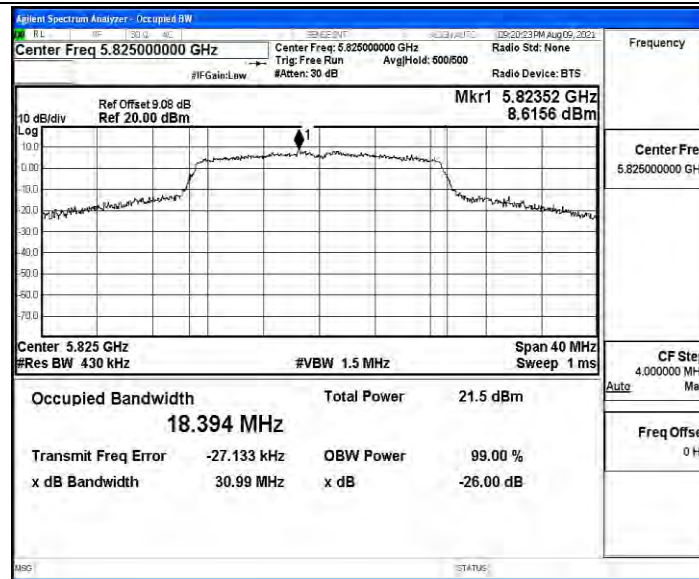
11AC20SISO_ANT4_5745



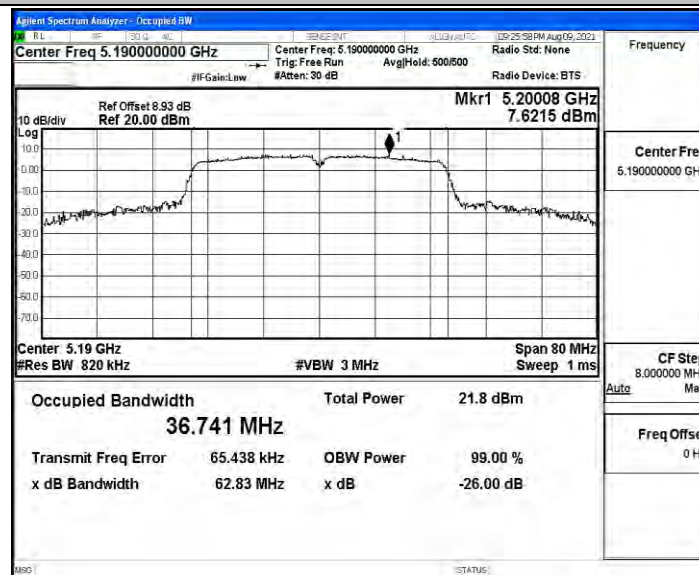
11AC20SISO_ANT4_5785



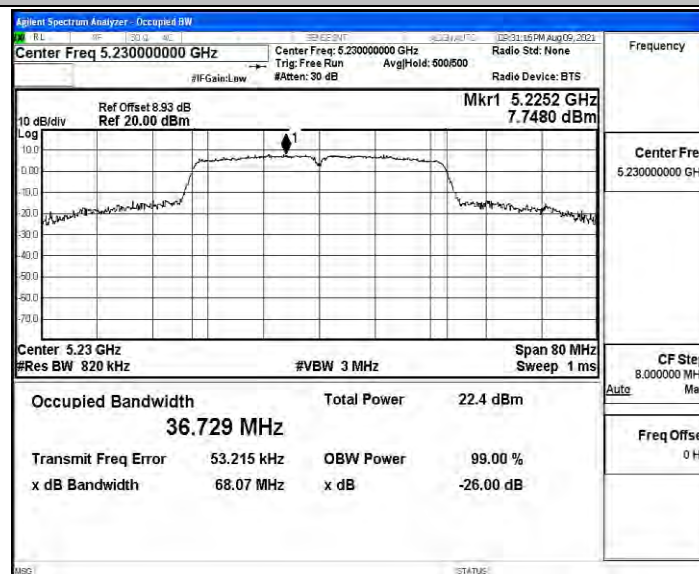
11AC20SISO_ANT4_5825



11AC40SISO_ANT4_5190

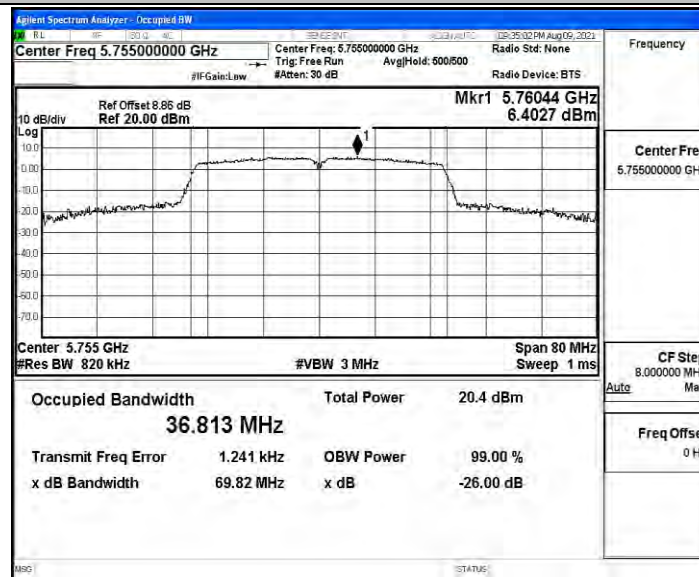


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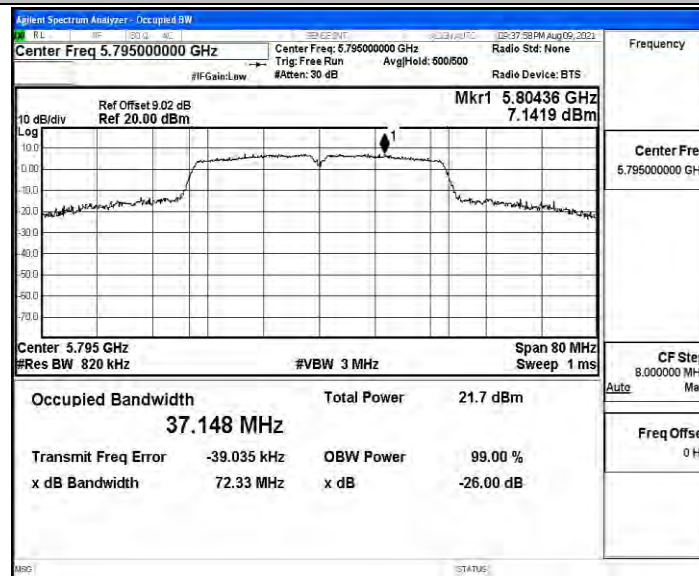




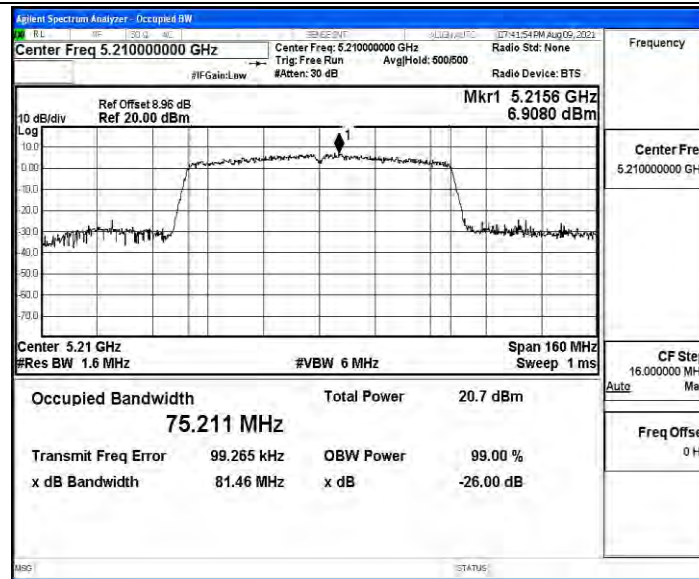
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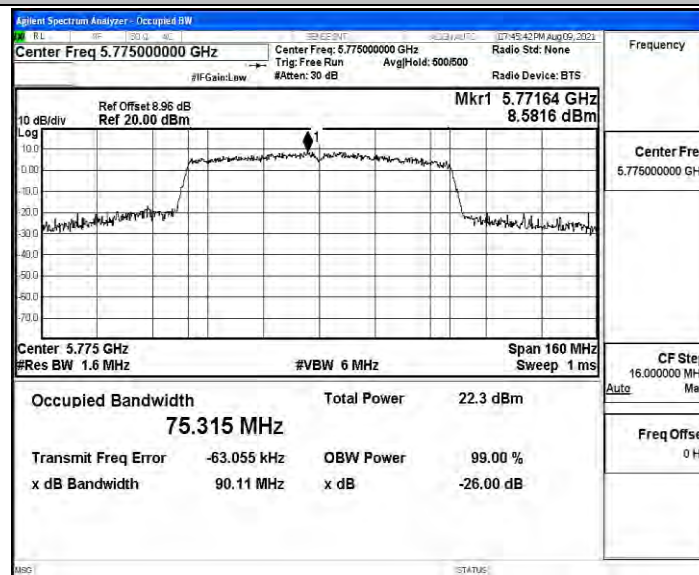
11AC40SISO_ANT4_5795



11AC80SISO_ANT4_5210



11AC80SISO_ANT4_5775





B.4: Min emission bandwidth

Test Result

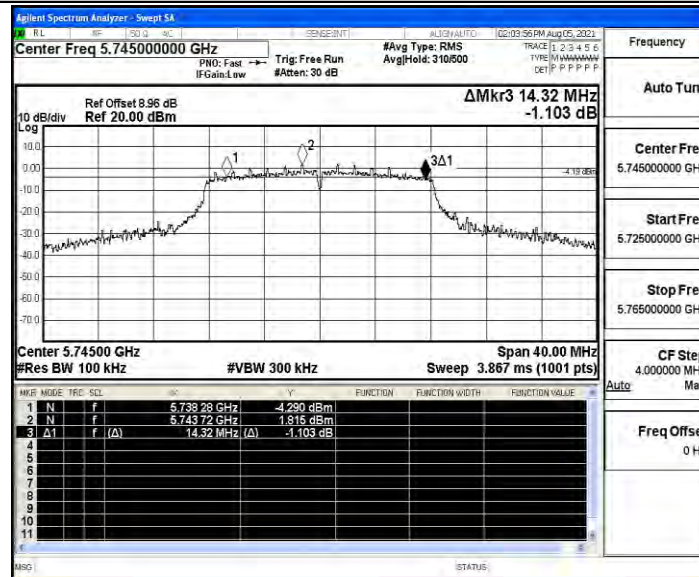
TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	ANT3	5745	14.320	5738.280	5752.600	0.5	PASS
		5785	15.200	5777.400	5792.600	0.5	PASS
		5825	15.200	5817.400	5832.600	0.5	PASS
11N20SISO	ANT3	5745	15.120	5737.400	5752.520	0.5	PASS
		5785	15.120	5777.400	5792.520	0.5	PASS
		5825	15.120	5817.400	5832.520	0.5	PASS
11N40SISO	ANT3	5755	35.200	5737.400	5772.600	0.5	PASS
		5795	35.200	5777.400	5812.600	0.5	PASS
11AC20SISO	ANT3	5745	15.120	5737.440	5752.560	0.5	PASS
		5785	15.120	5777.400	5792.520	0.5	PASS
		5825	16.000	5817.400	5833.400	0.5	PASS
11AC40SISO	ANT3	5755	35.280	5737.320	5772.600	0.5	PASS
		5795	35.200	5777.400	5812.600	0.5	PASS
11AC80SISO	ANT3	5775	75.520	5737.240	5812.760	0.5	PASS

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	ANT4	5745	15.200	5737.400	5752.600	0.5	PASS
		5785	15.160	5777.400	5792.560	0.5	PASS
		5825	14.440	5817.480	5831.920	0.5	PASS
11N20SISO	ANT4	5745	15.200	5737.400	5752.600	0.5	PASS
		5785	15.120	5777.400	5792.520	0.5	PASS
		5825	15.200	5817.400	5832.600	0.5	PASS
11N40SISO	ANT4	5755	35.360	5737.320	5772.680	0.5	PASS
		5795	35.280	5777.320	5812.600	0.5	PASS
11AC20SISO	ANT4	5745	17.000	5736.520	5753.520	0.5	PASS
		5785	15.200	5777.400	5792.600	0.5	PASS
		5825	15.160	5817.400	5832.560	0.5	PASS
11AC40SISO	ANT4	5755	35.280	5737.400	5772.680	0.5	PASS
		5795	35.280	5777.320	5812.600	0.5	PASS
11AC80SISO	ANT4	5775	75.520	5737.240	5812.760	0.5	PASS

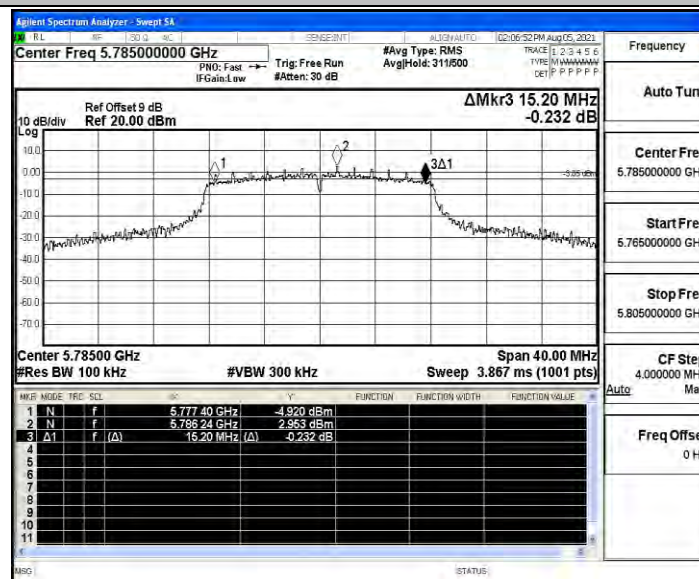


Test Graphs

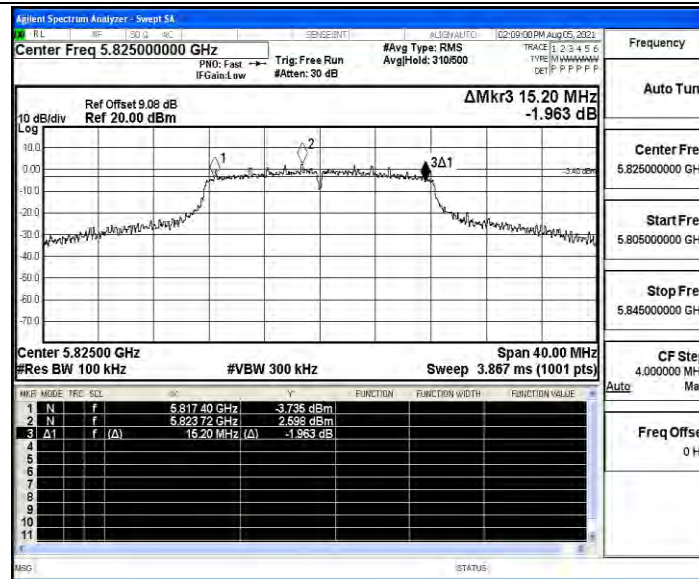
11A_ANT3_5745



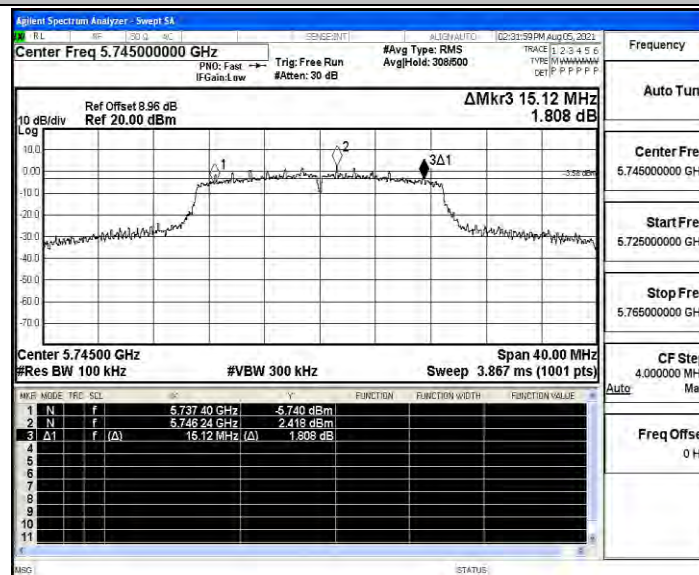
11A_ANT3_5785



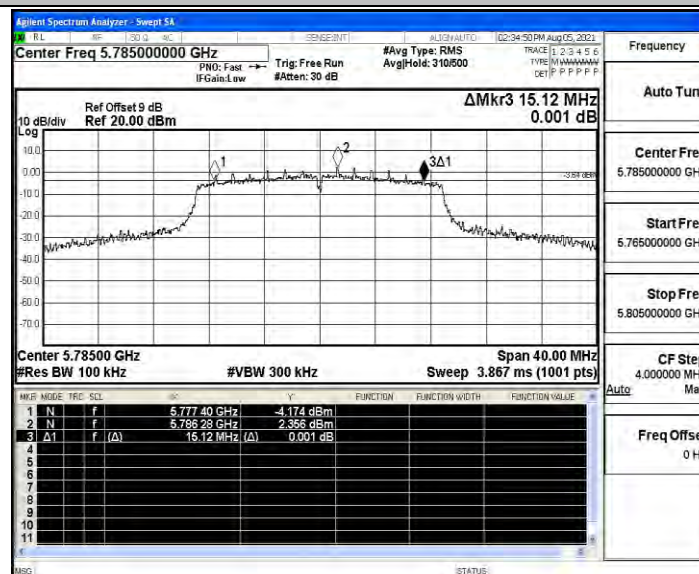
11A_ANT3_5825



11N20SISO_ANT3_5745

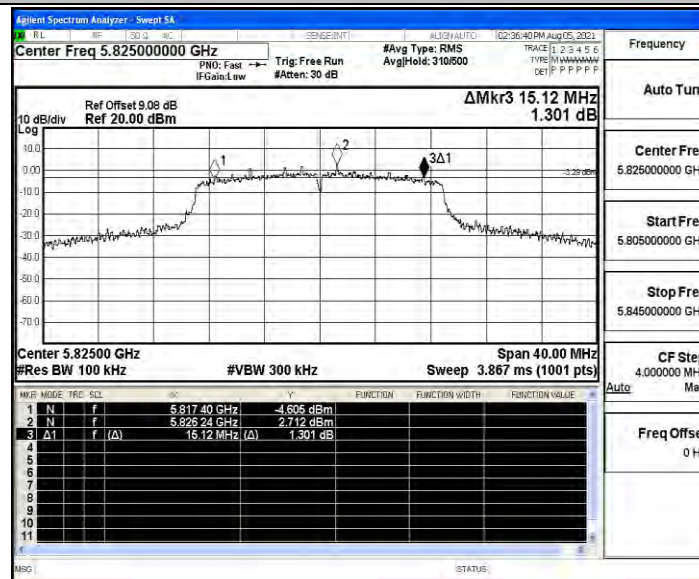


11N20SISO_ANT3_5785

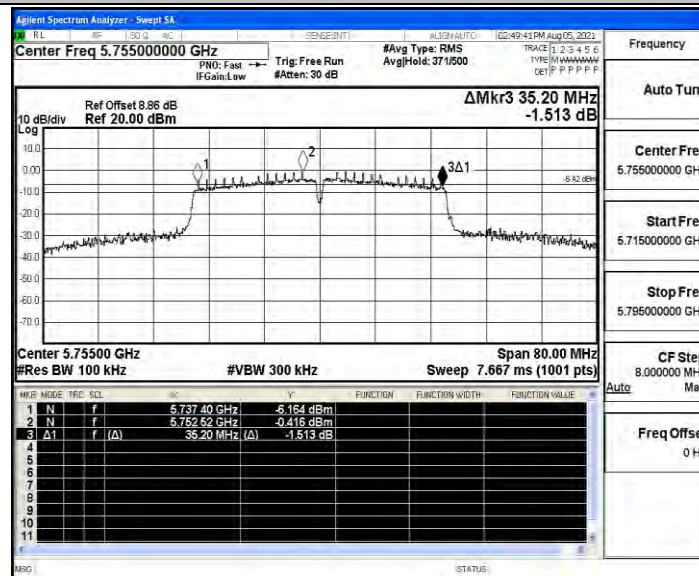




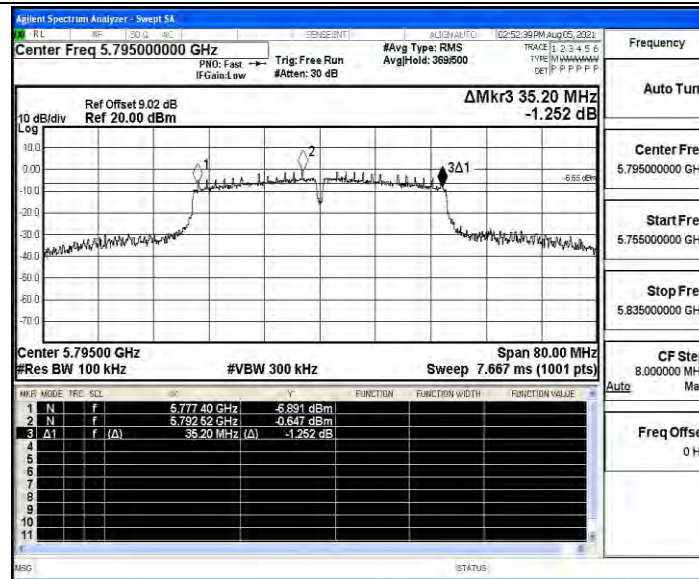
11N20SISO_ANT3_5825



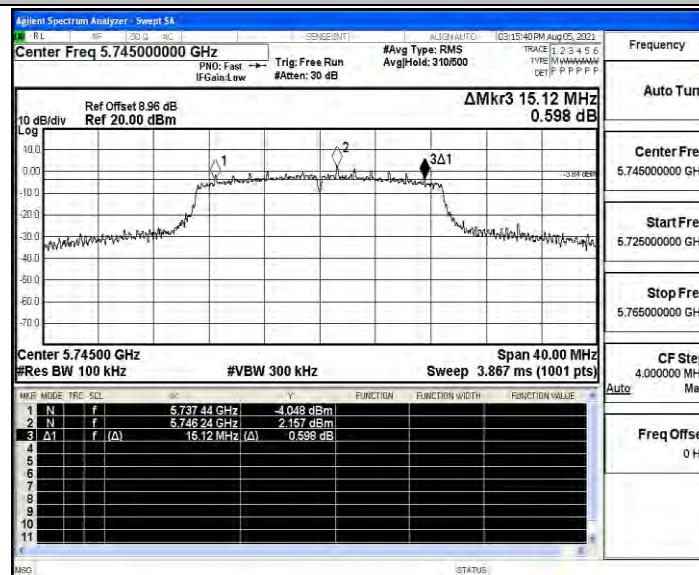
11N40SISO_ANT3_5755



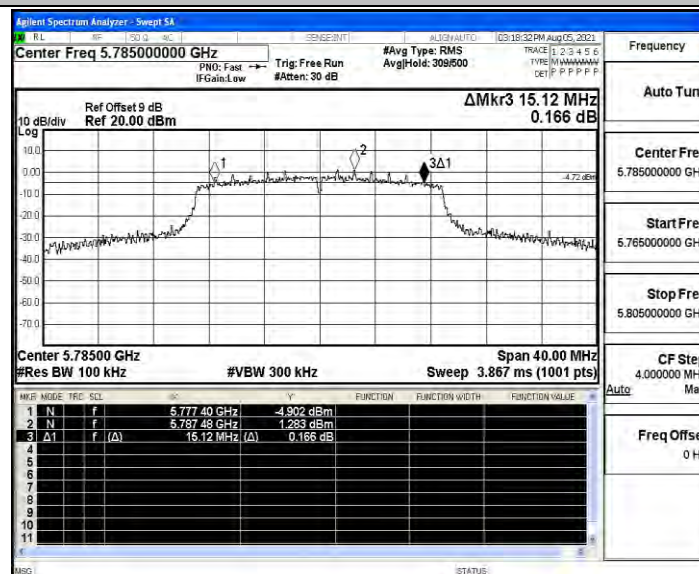
11N40SISO_ANT3_5795



11AC20SISO_ANT3_5745

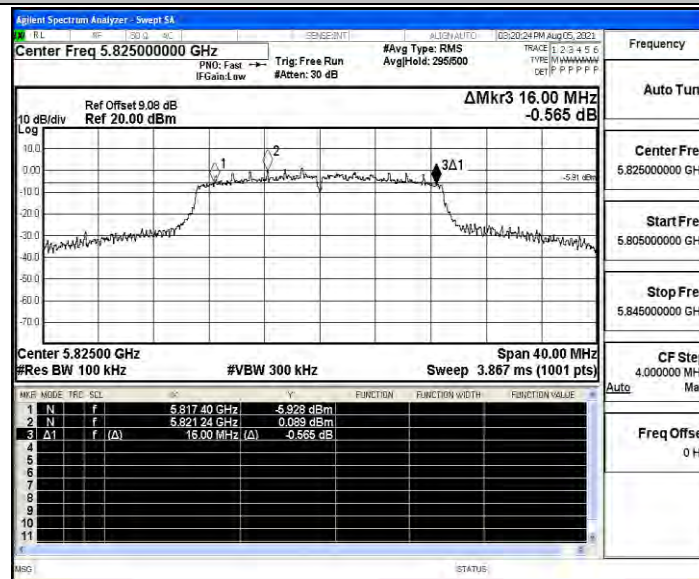


11AC20SISO_ANT3_5785

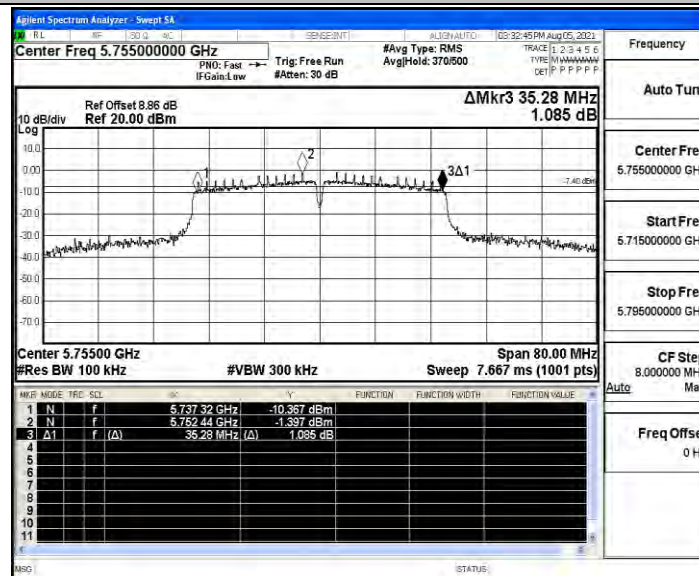




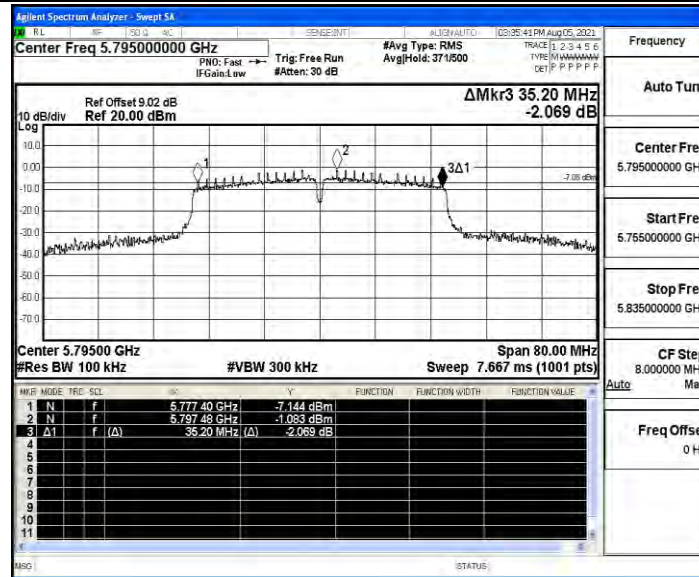
11AC20SISO_ANT3_5825



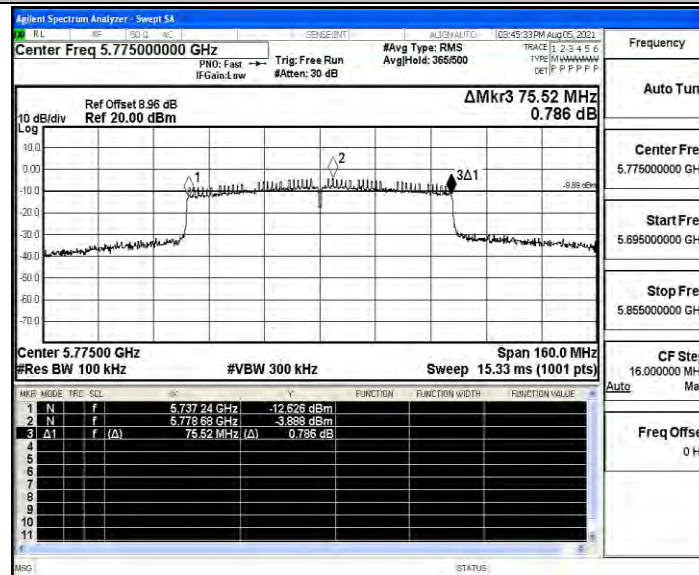
11AC40SISO_ANT3_5755



11AC40SISO_ANT3_5795

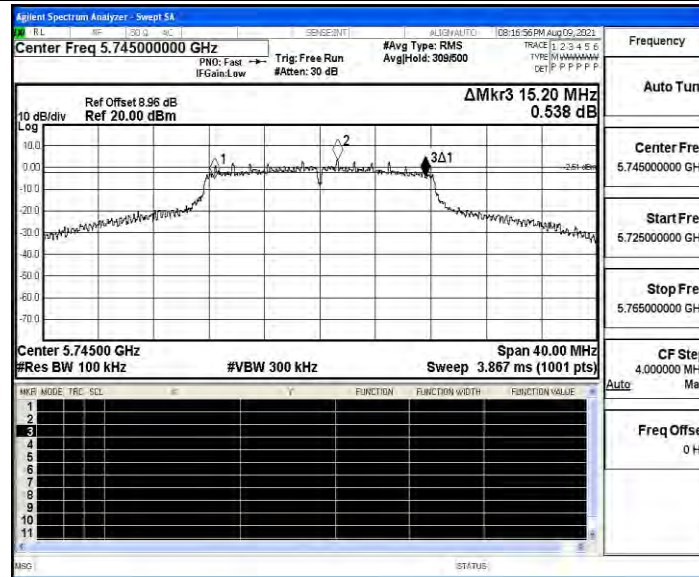


11AC80SISO_ANT3_5775

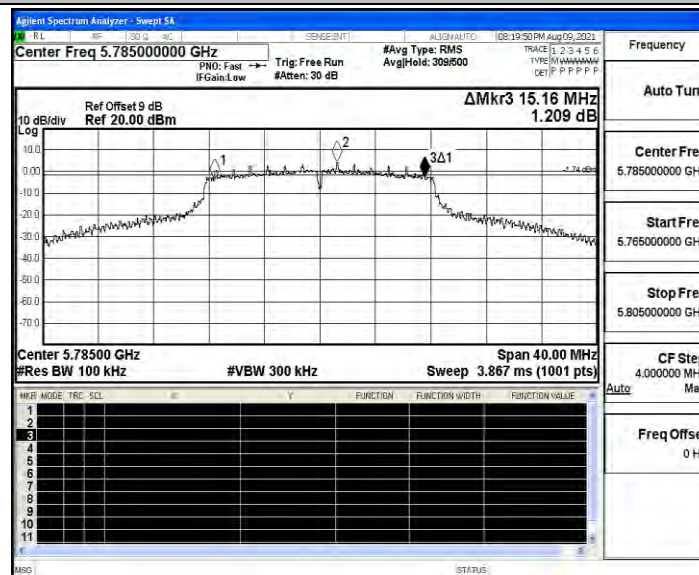




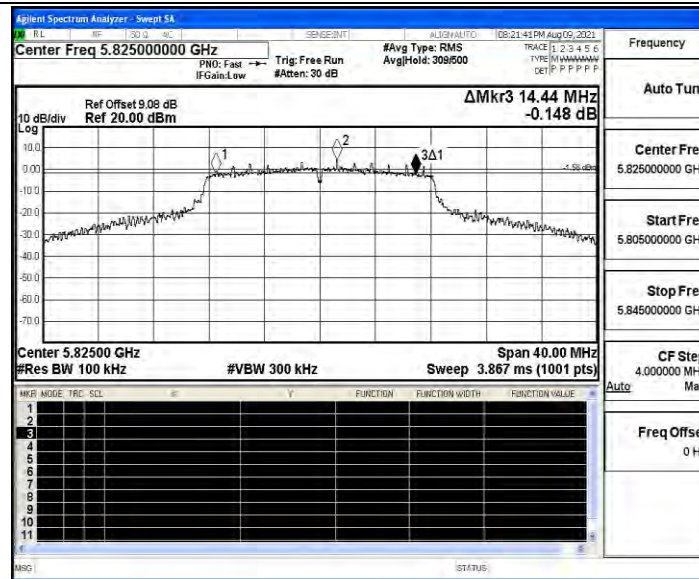
11A_ANT4_5745



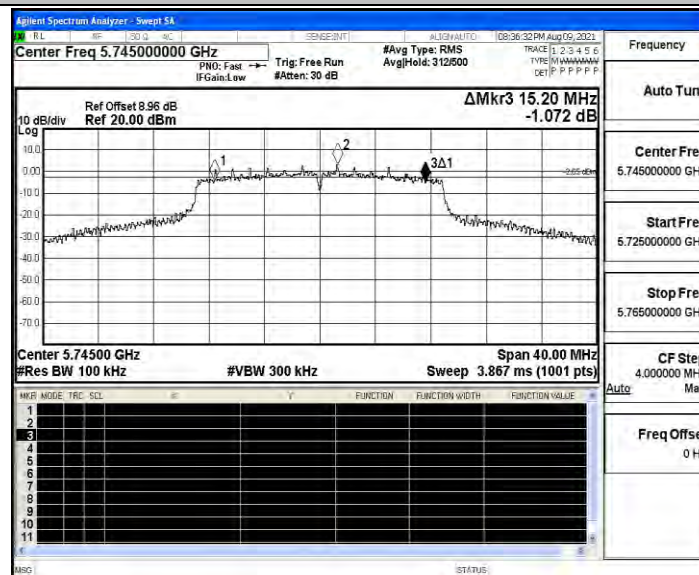
11A_ANT4_5785



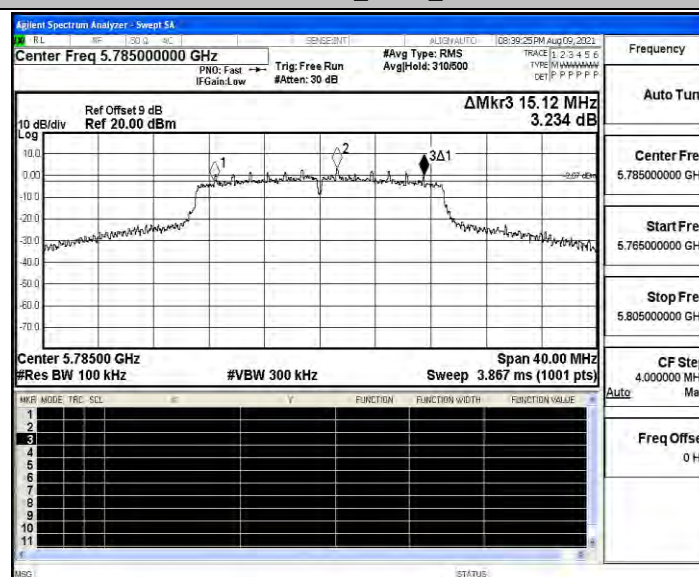
11A_ANT4_5825



11N20SISO_ANT4_5745

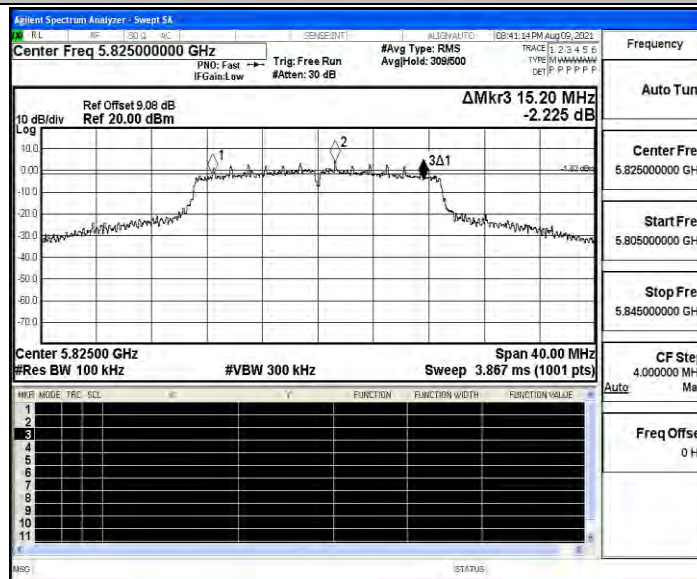


11N20SISO_ANT4_5785

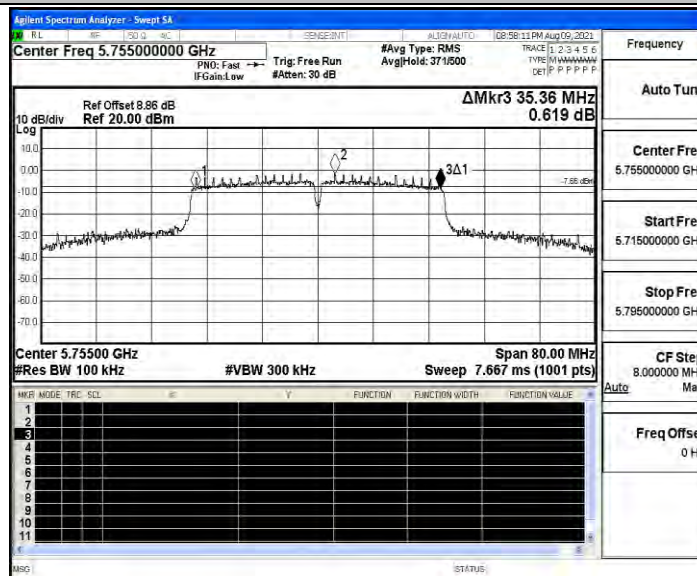




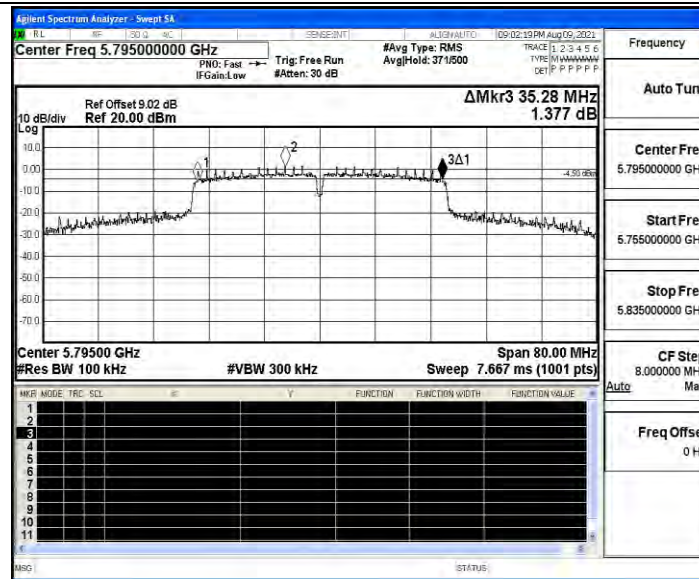
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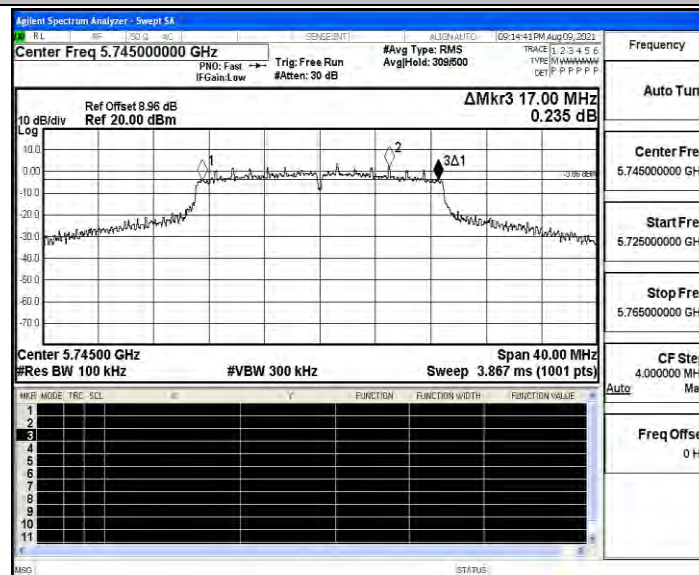
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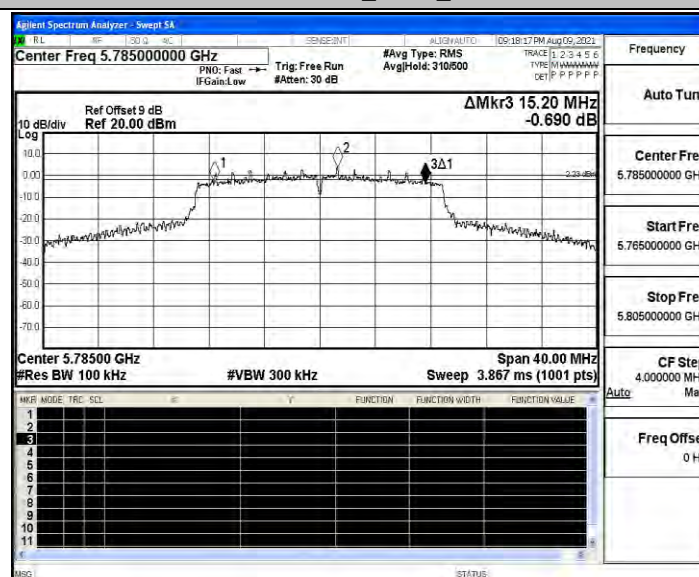
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11AC20SISO_ANT4_5745

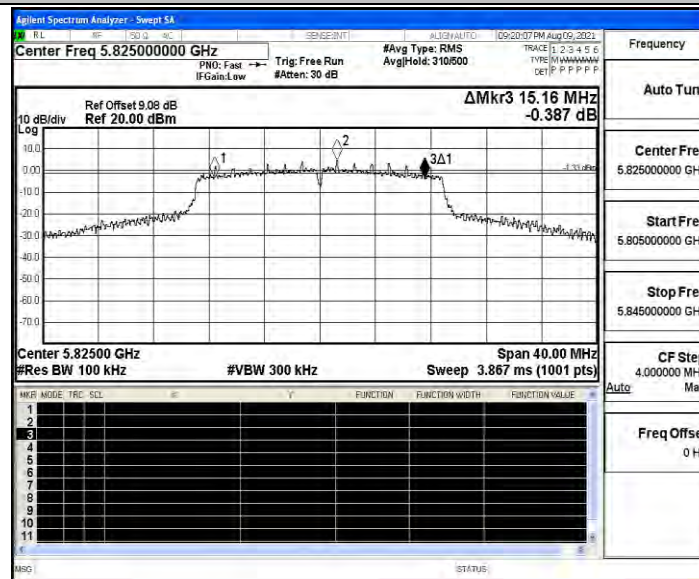


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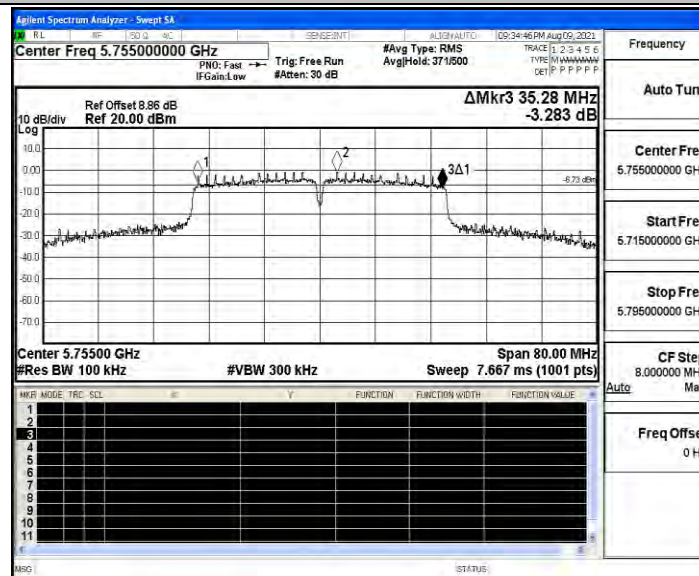




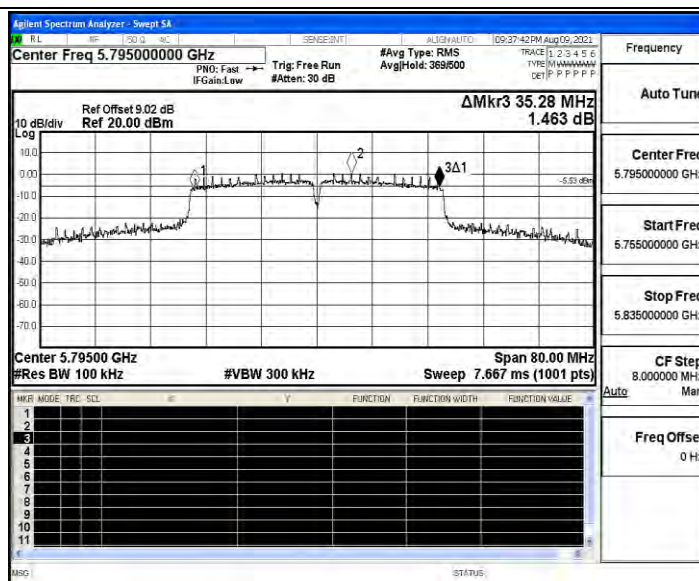
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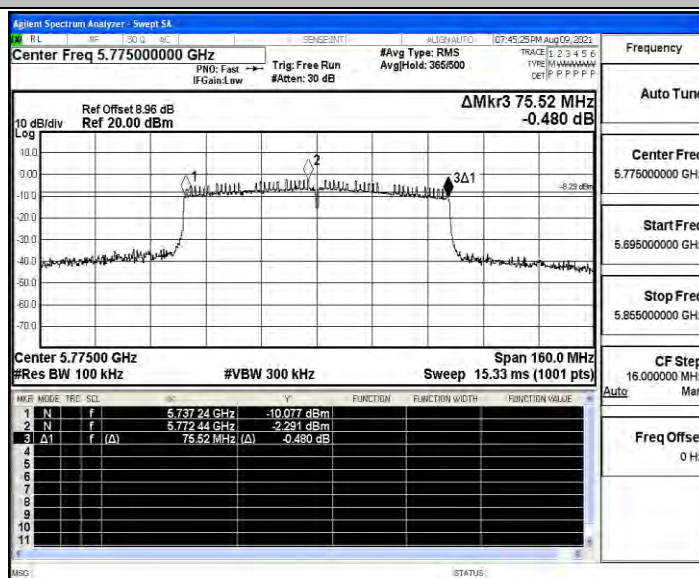
11AC40SISO_ANT4_5755



11AC40SISO_ANT4_5795



11AC80SISO ANT4 5775





B.2: Maximum conducted output power

Test Result

TestMode	Channel	Result[dBm]			Limit[dBm]	Verdict
		ANT3	ANT4	ANT3+ANT4		
11A	5180	14.60	15.74	/	≤24	PASS
	5200	14.18	14.95	/	≤24	PASS
	5240	14.20	14.96	/	≤24	PASS
	5745	15.51	13.78	/	≤30	PASS
	5785	15.78	14.20	/	≤30	PASS
	5825	15.62	14.31	/	≤30	PASS
11N20SISO	5180	14.64	15.83	18.29	≤24	PASS
	5200	15.25	15.57	18.42	≤24	PASS
	5240	15.86	15.07	18.49	≤24	PASS
	5745	14.76	13.46	17.17	≤30	PASS
	5785	14.07	13.06	16.60	≤30	PASS
	5825	14.62	14.18	17.42	≤30	PASS
11N40SISO	5190	15.40	14.94	18.19	≤24	PASS
	5230	15.28	14.92	18.11	≤24	PASS
	5755	14.75	14.54	17.66	≤30	PASS
	5795	14.16	15.37	17.82	≤30	PASS
11AC20SISO	5180	15.73	15.36	18.56	≤24	PASS
	5200	14.91	15.14	18.04	≤24	PASS
	5240	14.81	15.57	18.22	≤24	PASS
	5745	12.33	13.41	15.91	≤30	PASS
	5785	13.16	13.62	16.41	≤30	PASS
	5825	13.24	14.89	17.15	≤30	PASS
11AC40SISO	5190	15.19	14.51	17.87	≤24	PASS
	5230	14.70	15.10	17.91	≤24	PASS
	5755	12.82	13.05	15.95	≤30	PASS
	5795	13.38	14.45	16.96	≤30	PASS
11AC80SISO	5210	15.54	11.90	17.10	≤24	PASS
	5775	15.05	13.22	17.24	≤30	PASS

Note: The Duty Cycle Factor is compensated in the graph.



B.3: Maximum power spectral density

Test Result

TestMode	Channel	Result [dBm/MHz]			Limit [dBm/MHz]	Verdict
		ANT3	ANT4	ANT3+ANT4		
11A	5180	4.36	5.47	/	≤11	PASS
	5200	4.03	4.45	/	≤11	PASS
	5240	3.93	4.68	/	≤11	PASS
	5745	2.3	0.83	/	≤30	PASS
	5785	3.19	1.16	/	≤30	PASS
	5825	2.52	1.34	/	≤30	PASS
11N20SISO	5180	4.34	5.43	7.93	≤11	PASS
	5200	4.76	5.17	7.98	≤11	PASS
	5240	5.32	4.61	7.99	≤11	PASS
	5745	1.45	0.51	4.02	≤30	PASS
	5785	0.82	0.08	3.48	≤30	PASS
	5825	1.3	1.03	4.18	≤30	PASS
11N40SISO	5190	1.77	1.05	4.44	≤11	PASS
	5230	1.64	0.9	4.30	≤11	PASS
	5755	-1.91	-1.9	1.11	≤30	PASS
	5795	-2.29	-1.47	1.15	≤30	PASS
11AC20SISO	5180	5.43	5.47	8.46	≤11	PASS
	5200	4.52	4.78	7.66	≤11	PASS
	5240	4.35	5.27	7.84	≤11	PASS
	5745	-1.57	0.2	2.41	≤30	PASS
	5785	0.4	0.91	3.67	≤30	PASS
	5825	0.05	1.82	4.03	≤30	PASS
11AC40SISO	5190	1.5	0.41	4.00	≤11	PASS
	5230	0.68	1.26	3.99	≤11	PASS
	5755	-3.97	-3.81	-0.88	≤30	PASS
	5795	-3.16	-2.16	0.38	≤30	PASS
11AC80SISO	5210	-0.77	-4.42	0.79	≤11	PASS
	5775	-3.79	-5.9	-1.71	≤30	PASS

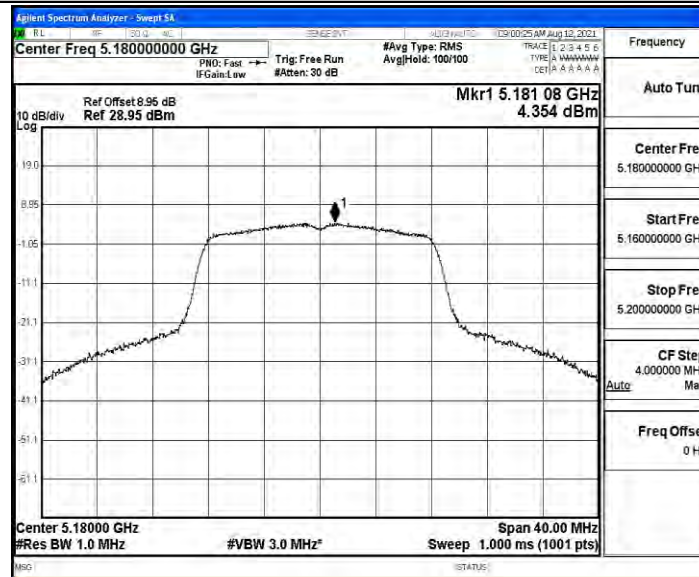
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

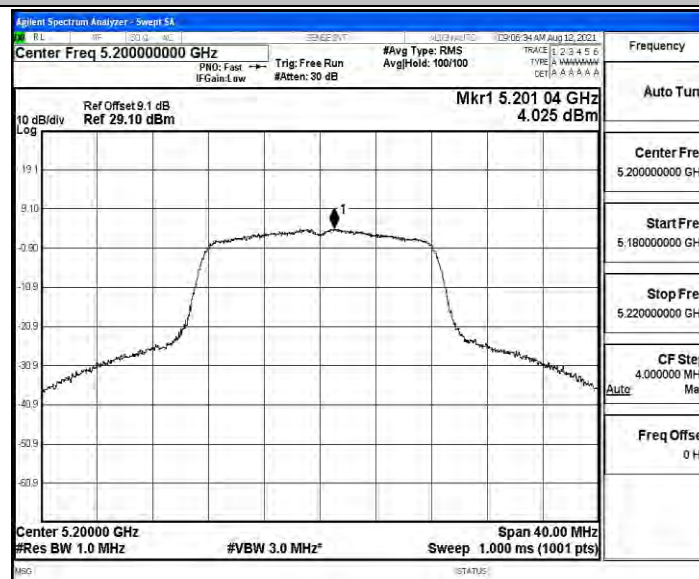


Test Graphs

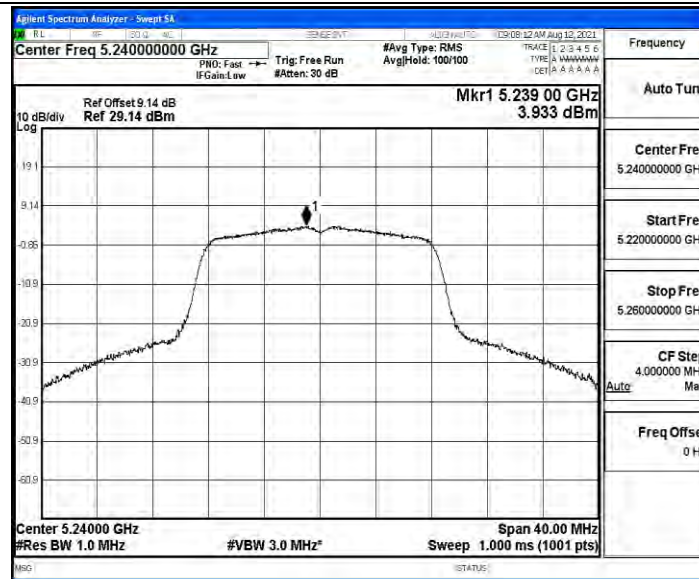
11A_ANT3_5180



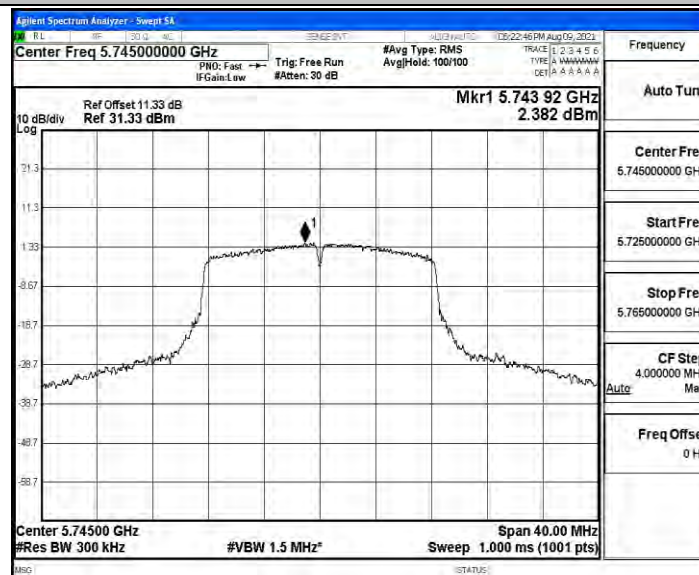
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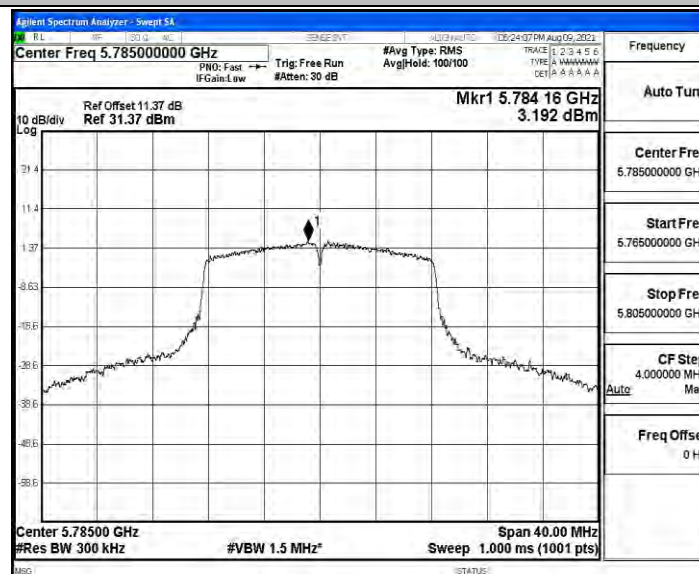
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11A_ANT3_5745

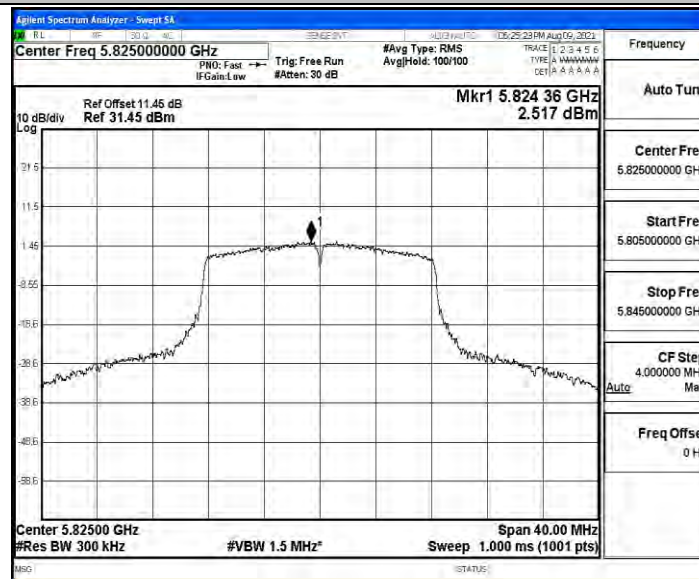


11A_ANT3_5785

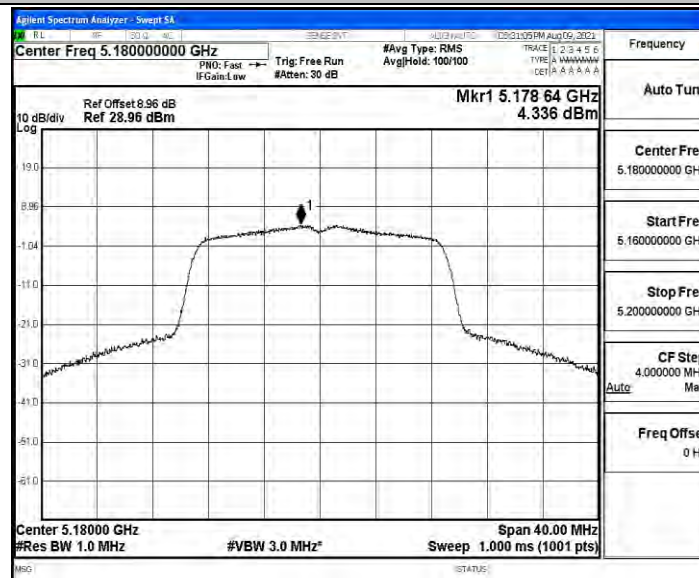




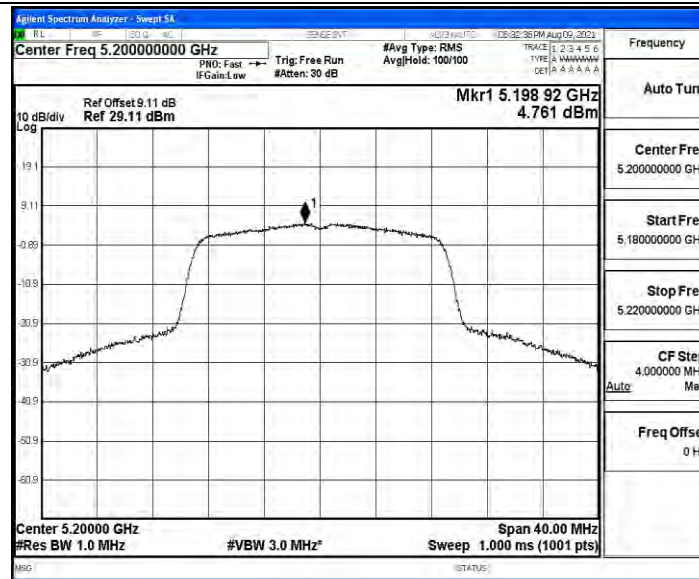
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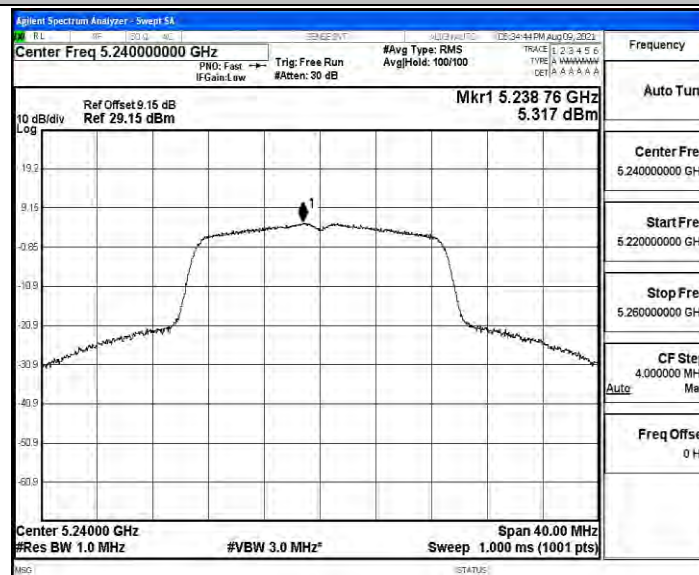
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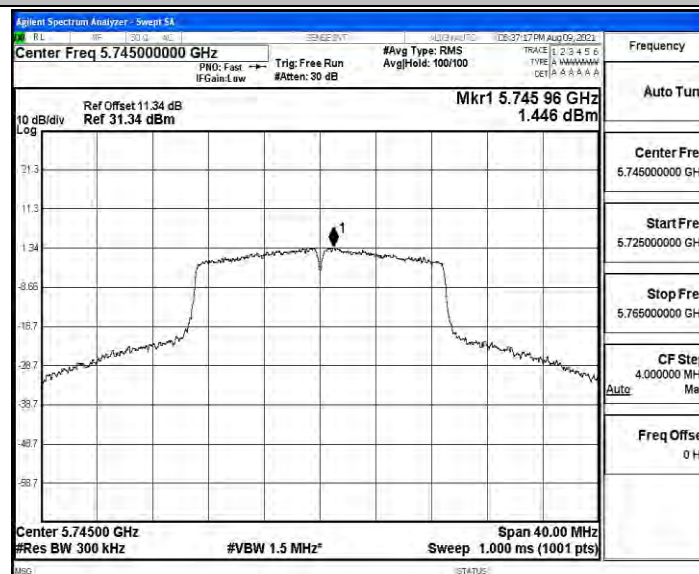
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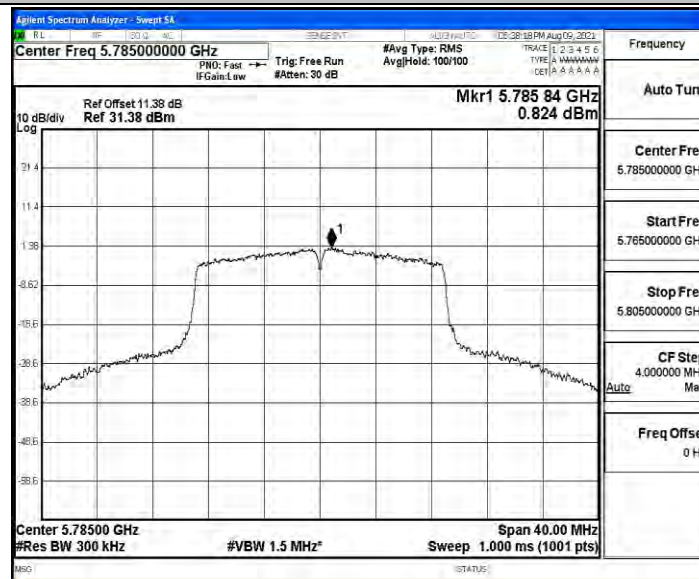


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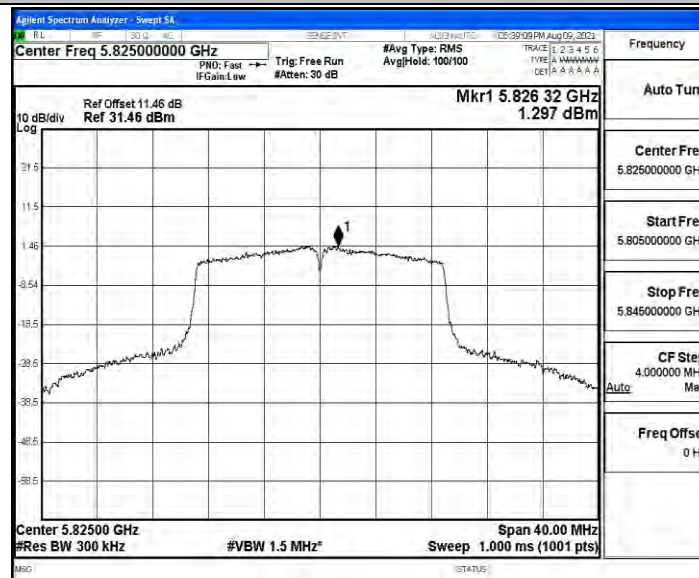




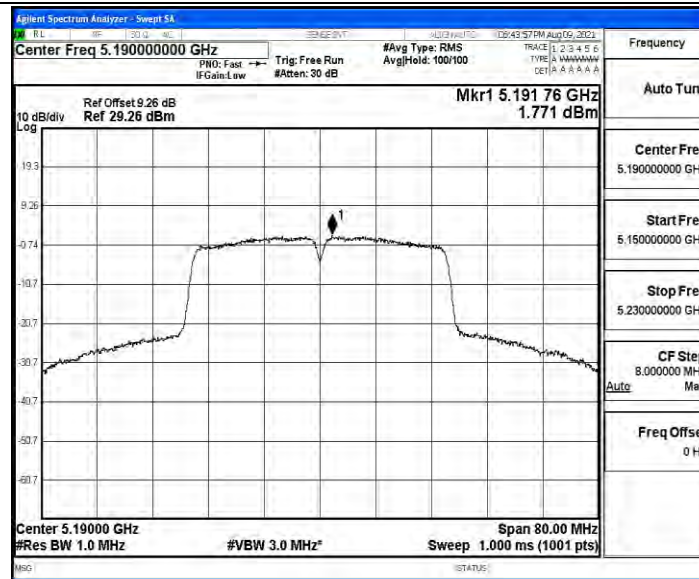
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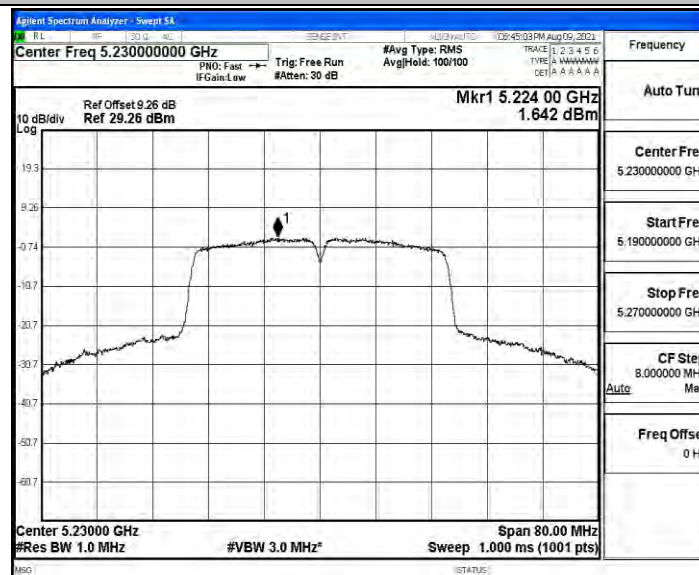
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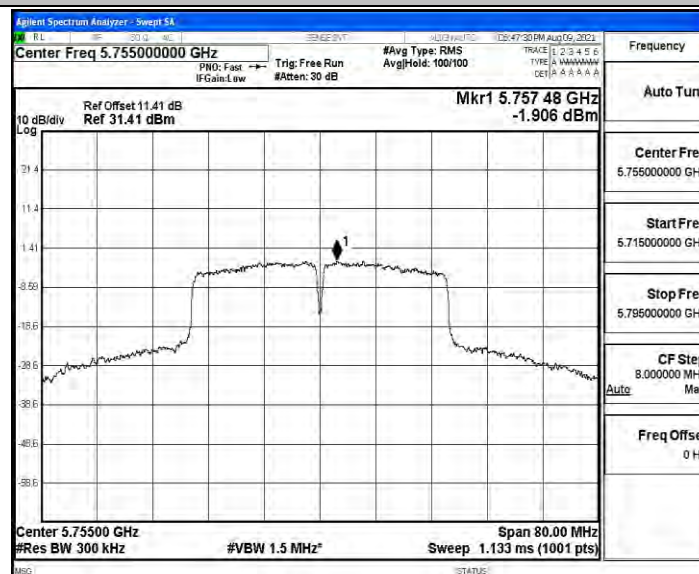
11N40SISO_ANT3_5190



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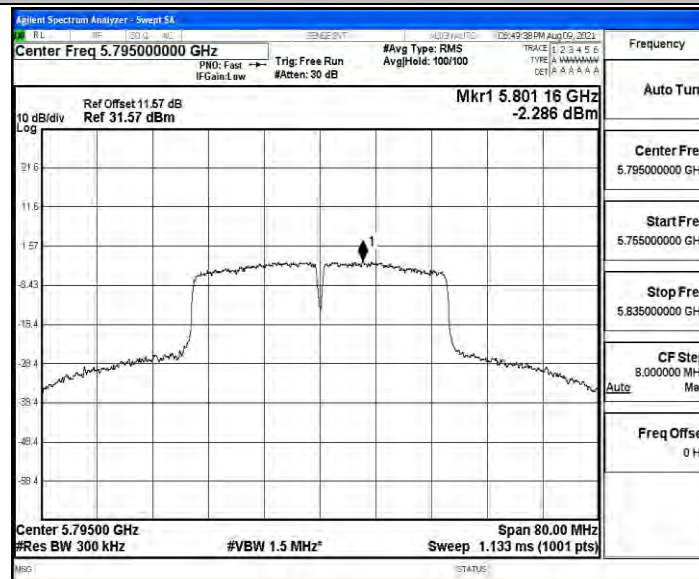


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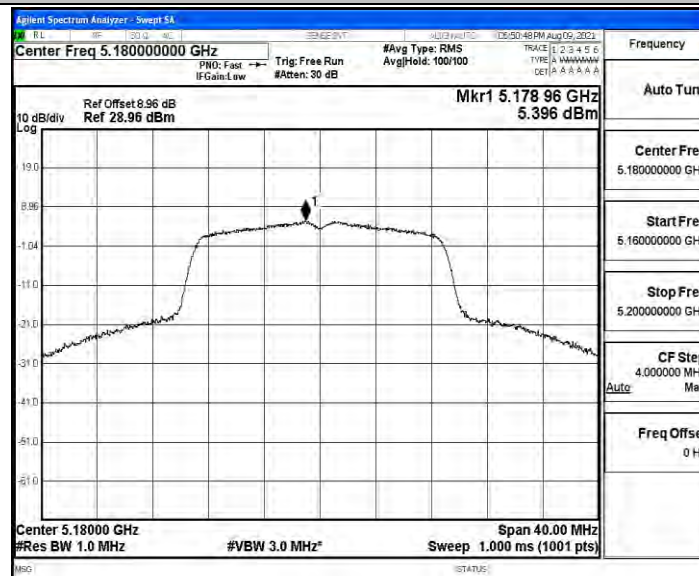




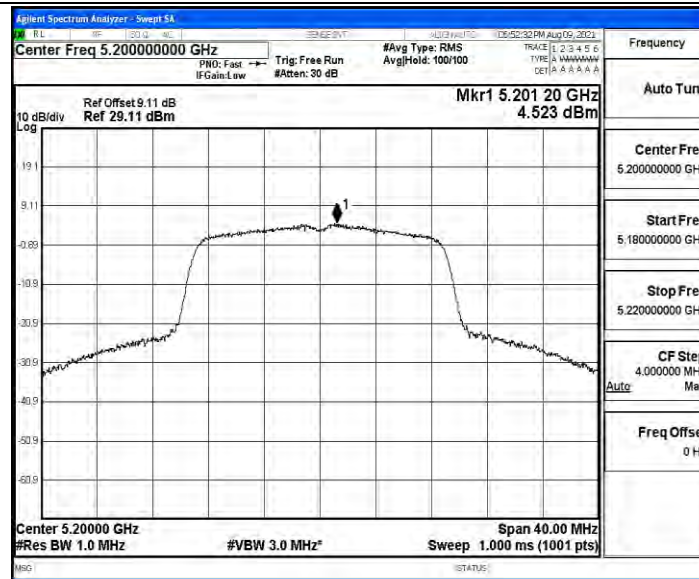
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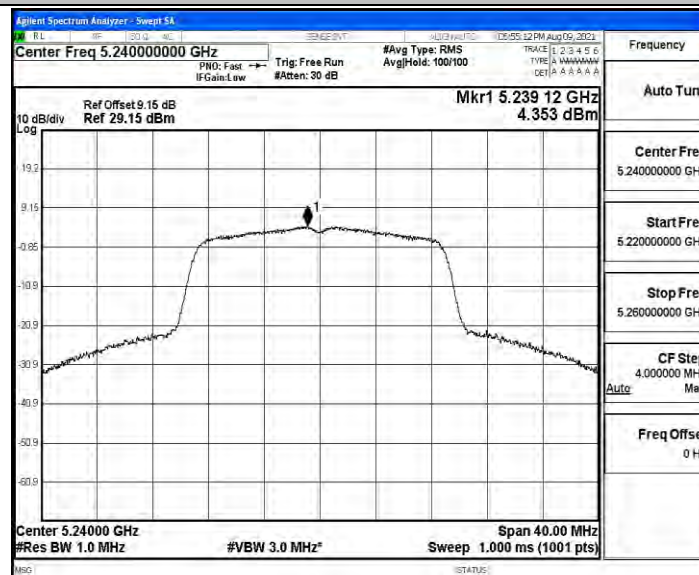
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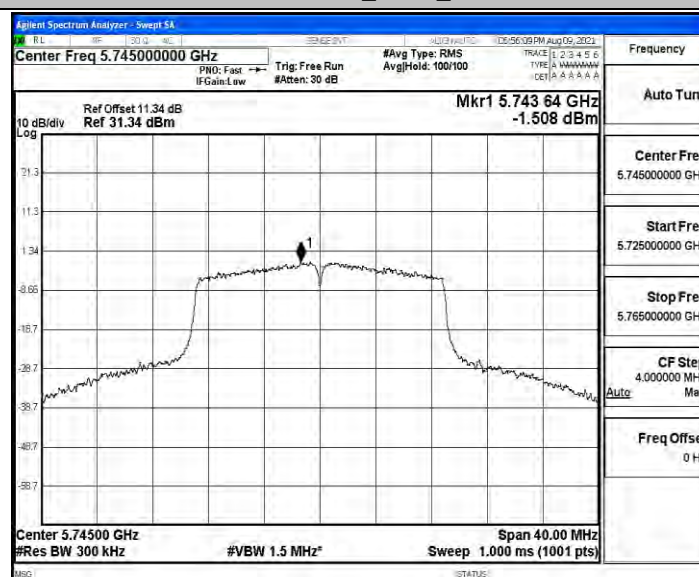
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11AC20SISO_ANT3_5240

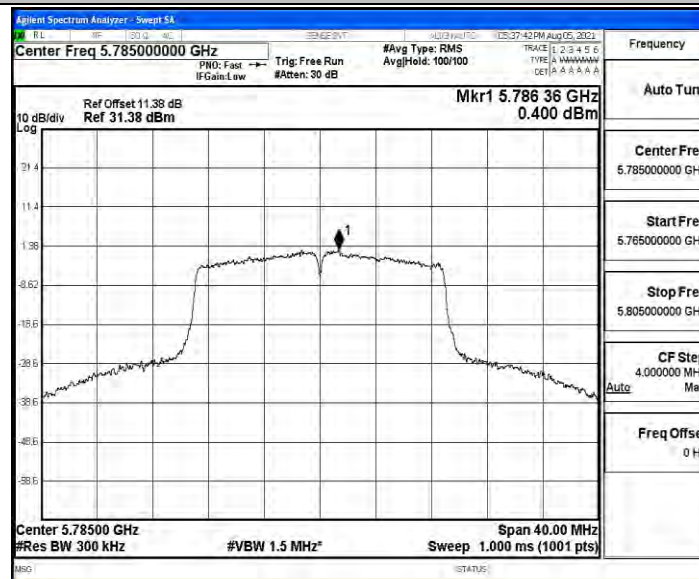


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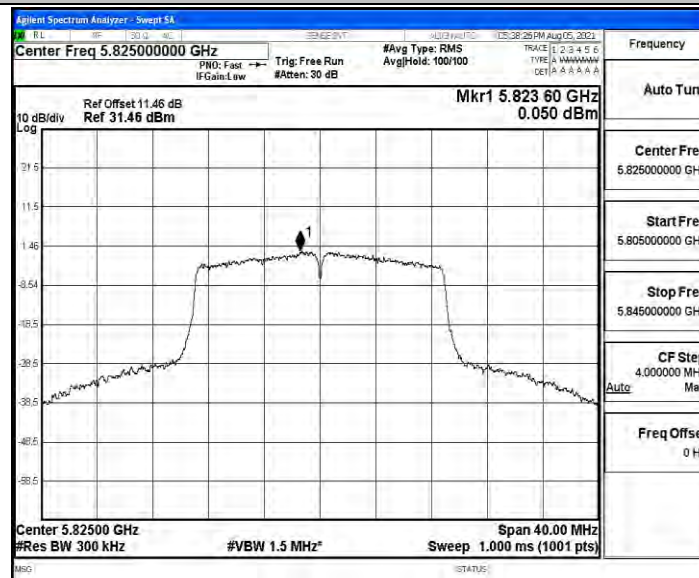




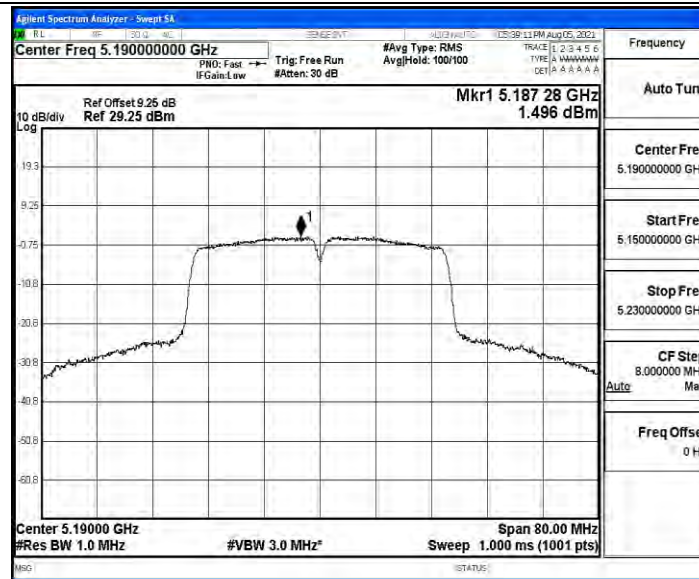
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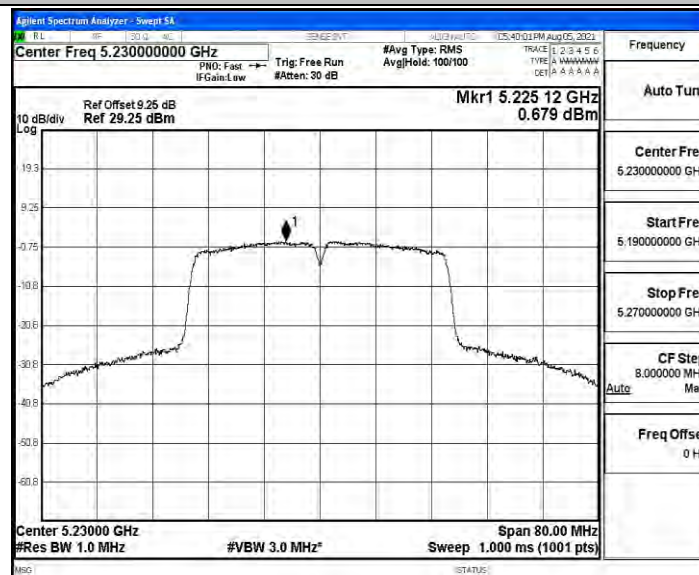
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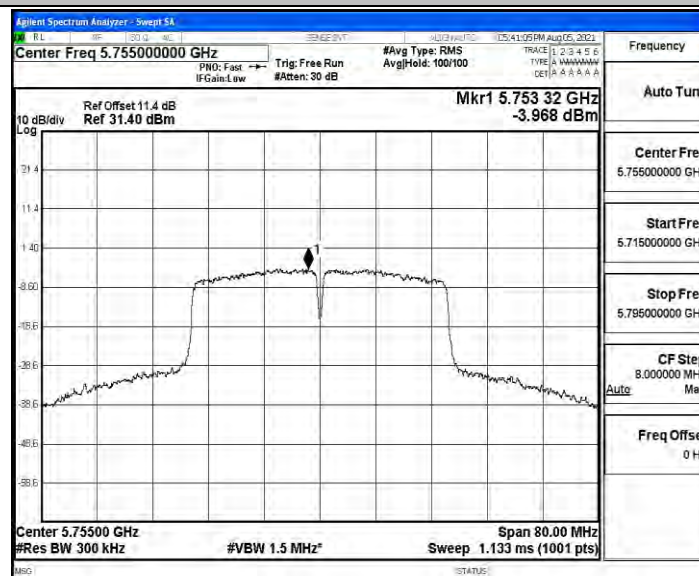
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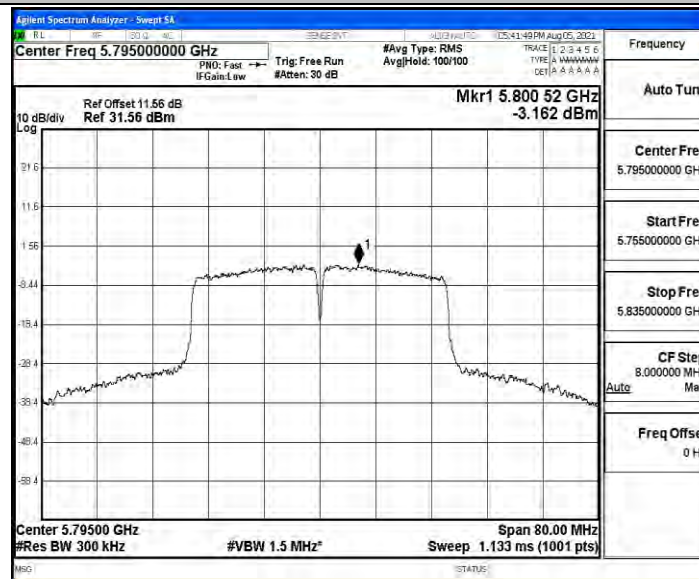


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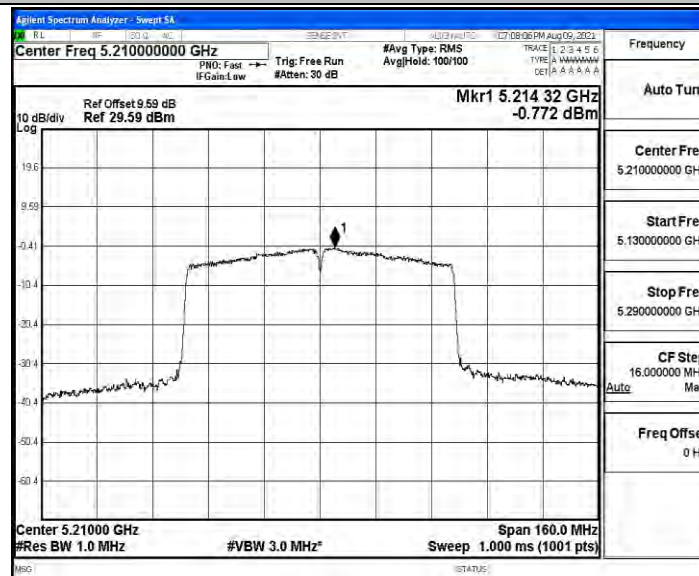




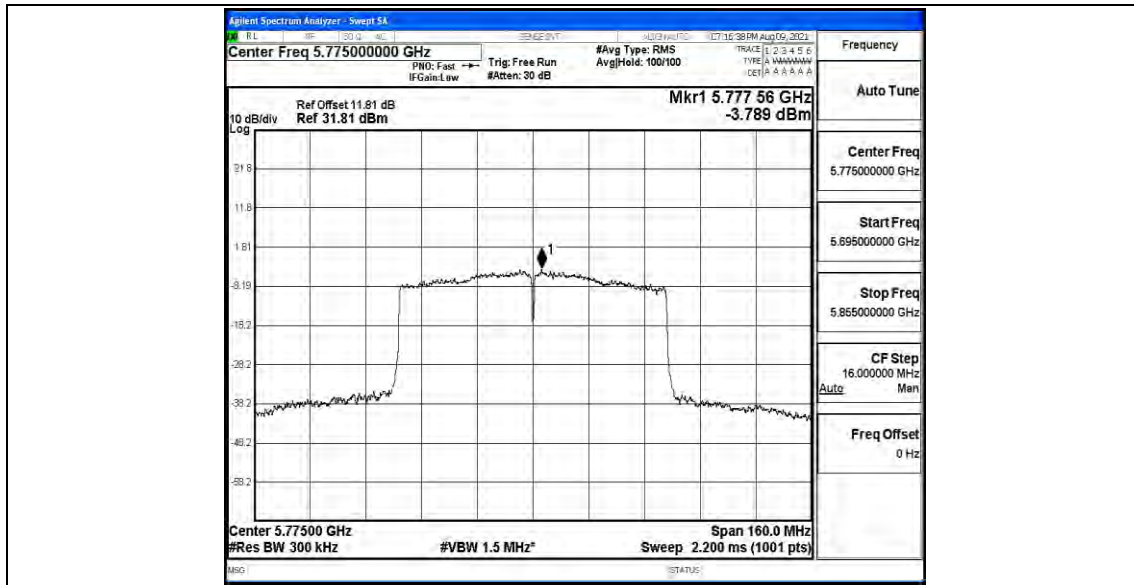
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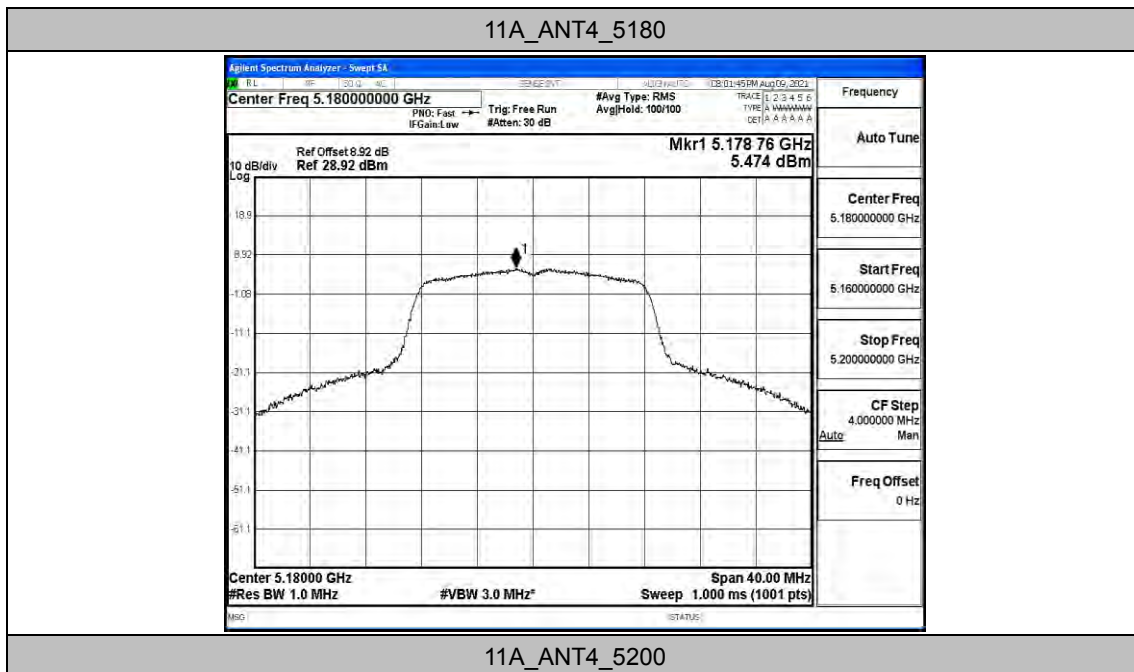
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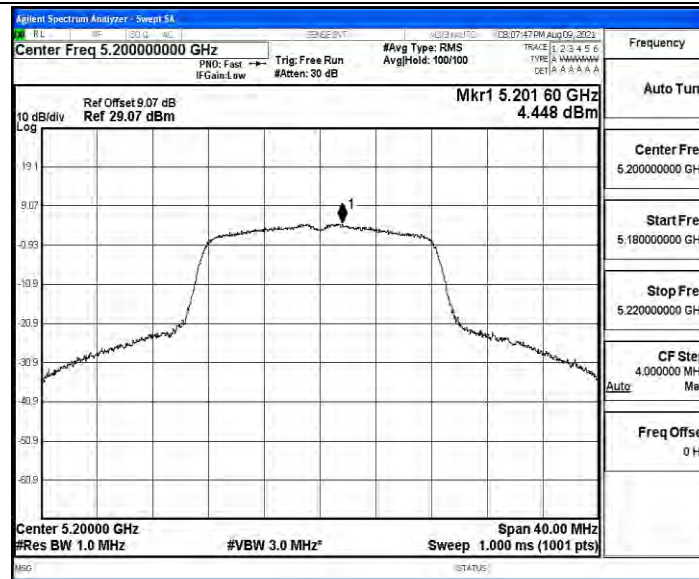
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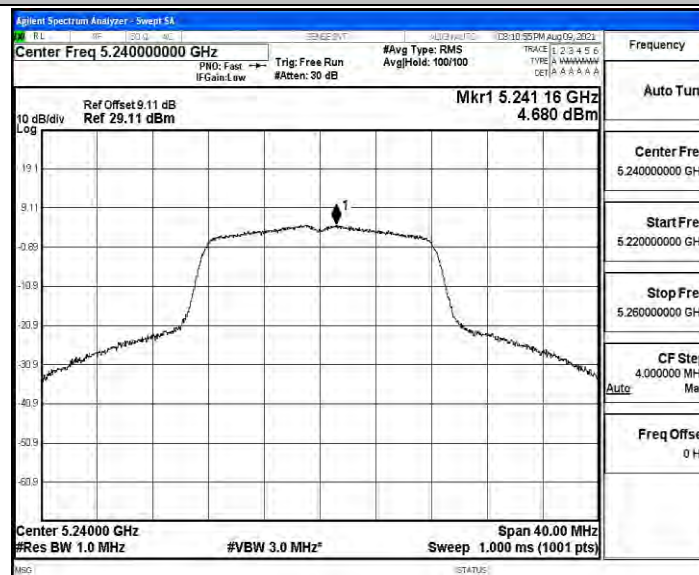
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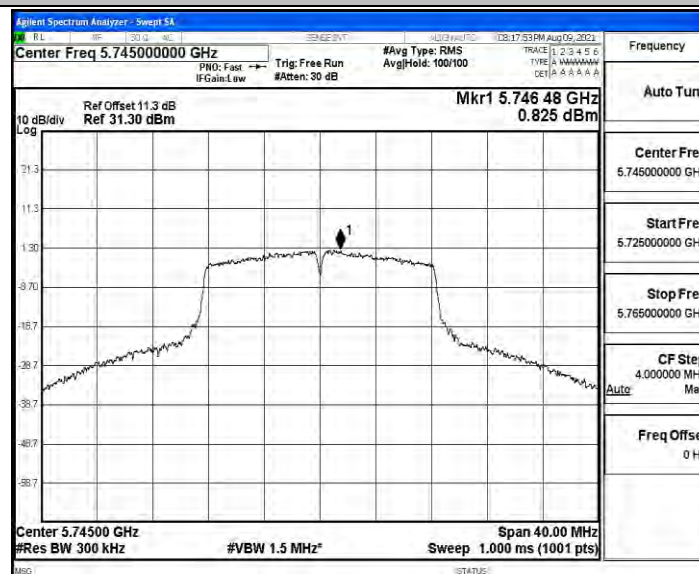
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11A_ANT4_5240

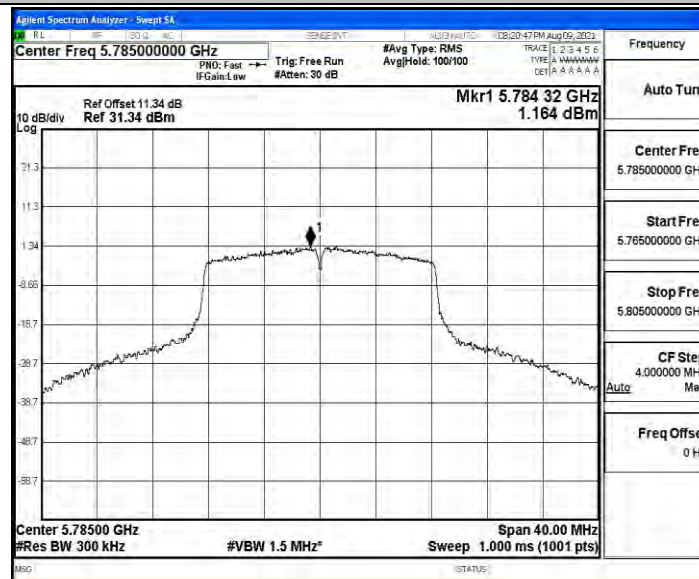


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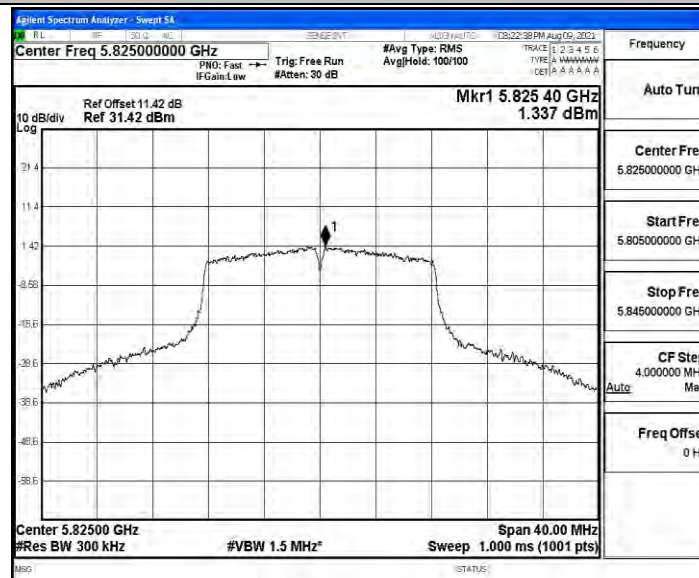




11A_ANT4_5785



11A_ANT4_5825



11N20SISO_ANT4_5180